

```

Ser Asp Met Met Gly Leu Leu Lys Thr Phe Phe Ser Cys His Lys Glu
145          150          155          160
Phe Gln Thr Val Pro Phe Tyr Ile Phe Ser Glu Ser Tyr Gly Gly Lys
          165          170          175
Met Ala Ala Gly Ile Gly Leu Glu Leu Tyr Lys Ala Ile Gln Arg Gly
          180          185          190
Thr Ile Lys Cys Asn Phe Ala Gly Val Ala Leu Gly Asp Ser Trp Ile
          195          200          205
Ser Pro Val Asp Ser Val Leu Ser Trp Gly Pro Tyr Leu Tyr Ser Met
          210          215          220
Ser Leu Leu Glu Asp Lys Gly Leu Ala Glu Val Ser Lys Val Ala Glu
225          230          235          240
Gln Val Leu Asn Ala Val Asn Lys Gly Leu Tyr Arg Glu Ala Thr Glu
          245          250          255
Leu Trp Gly Lys Ala Glu Met Ile Ile Glu Gln Val Lys Arg Gly Asn
          260          265          270
Thr Gln Arg Arg Ala Cys Leu Ala Phe Ser Gly Gly Tyr Arg Ala His
          275          280          285
Gly Trp Cys Cys Gln Thr Trp Ser Leu His
290          295          298

```

```

<210> 911
<211> 213
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(213)
<223> X = any amino acid or stop code

```

```

<400> 911
Pro Gly Trp Ser Arg Ser Pro Asp Leu Val Ile Arg Leu Pro Arg Pro
1          5          10          15
Pro Lys Val Leu Gly Leu Gln Tyr Tyr His Phe Phe Phe Phe Leu Arg
          20          25          30
Trp Ser Leu Asp Ser Val Ala Gln Ala Glu Val Gln Trp His Asp Leu
          35          40          45
Arg Ser Leu Gln Ala Pro Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu
          50          55          60
Ser Leu Pro Gly Ser Trp Asp Tyr Arg Cys Pro Pro Pro Arg Pro Ala
          65          70          75          80
Asn Phe Leu Tyr Phe Xaa Xaa Arg Arg Gly Phe Thr Val Leu Ala Arg
          85          90          95
Met Val Ser Ile Ser Xaa Pro Arg Asp Pro Pro Ala Ser Ala Ser Gln
          100          105          110
Ser Ala Gly Ile Thr Val Leu Ser Leu Phe Phe Phe Phe Glu Met Glu
          115          120          125
Ser Cys Ser Val Ala Gln Ala Gly Val Gln Trp Arg Tyr Leu Gly Ser
          130          135          140
Leu Gln Ala Leu Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu Ser Leu
145          150          155          160
Pro Ser Ser Trp Asp Tyr Arg Arg Pro Pro Arg Pro Ala Asn Phe
          165          170          175
Phe Val Phe Leu Val Glu Thr Gly Val Ser Pro Cys Xaa Pro Gly Trp
          180          185          190
Ser Arg Ser Pro Asp Leu Val Ile Arg Leu Pro Gln Pro Pro Lys Val
          195          200          205
Leu Gly Leu Gln Val

```

210

213

<210> 912  
 <211> 583  
 <212> Amino acid  
 <213> Homo sapiens

<400> 912  
 Pro Ser Met Lys Thr Gly Glu Leu Glu Lys Glu Thr Ala Pro Leu Arg  
 1 5 10 15  
 Lys Asp Ala Asp Ser Ser Ile Ser Val Leu Glu Ile His Ser Gln Lys  
 20 25 30  
 Ala Gln Ile Glu Glu Pro Asp Pro Pro Glu Met Glu Thr Ser Leu Asp  
 35 40 45  
 Ser Ser Glu Met Ala Lys Asp Leu Ser Ser Lys Thr Ala Leu Ser Ser  
 50 55 60  
 Thr Glu Ser Cys Thr Met Lys Gly Glu Glu Lys Ser Pro Lys Thr Lys  
 65 70 75 80  
 Lys Asp Lys Arg Pro Ile Leu Glu Cys Leu Glu Lys Leu Glu Lys  
 85 90 95  
 Ser Lys Lys Thr Phe Leu Asp Lys Asp Ala Gln Arg Leu Ser Pro Ile  
 100 105 110  
 Pro Glu Glu Val Pro Lys Ser Thr Leu Glu Ser Glu Lys Pro Gly Ser  
 115 120 125  
 Pro Glu Ala Ala Glu Thr Ser Pro Pro Ser Asn Ile Ile Asp His Cys  
 130 135 140  
 Glu Lys Leu Ala Ser Glu Lys Glu Val Val Glu Cys Gln Ser Thr Ser  
 145 150 155 160  
 Thr Val Gly Gly Gln Ser Val Lys Lys Val Asp Leu Glu Thr Leu Lys  
 165 170 175  
 Glu Asp Ser Glu Phe Thr Lys Val Glu Met Asp Asn Leu Asp Asn Ala  
 180 185 190  
 Gln Thr Ser Gly Ile Glu Glu Pro Ser Glu Thr Lys Gly Ser Met Gln  
 195 200 205  
 Lys Ser Lys Phe Lys Tyr Lys Leu Val Pro Glu Glu Thr Thr Ala  
 210 215 220  
 Ser Glu Asn Thr Glu Ile Thr Ser Glu Arg Gln Lys Glu Gly Ile Lys  
 225 230 235 240  
 Leu Thr Ile Arg Ile Ser Ser Arg Lys Lys Lys Pro Asp Ser Pro Pro  
 245 250 255  
 Lys Val Leu Glu Pro Glu Asn Lys Gln Glu Lys Thr Glu Lys Glu Glu  
 260 265 270  
 Glu Lys Thr Asn Val Gly Arg Thr Leu Arg Arg Ser Pro Arg Ile Ser  
 275 280 285  
 Arg Pro Thr Ala Lys Val Ala Glu Ile Arg Asp Gln Lys Ala Asp Lys  
 290 295 300  
 Lys Arg Gly Glu Gly Glu Asp Glu Val Glu Glu Glu Ser Thr Ala Leu  
 305 310 315 320  
 Gln Lys Thr Asp Lys Lys Glu Ile Leu Lys Lys Ser Glu Lys Asp Thr  
 325 330 335  
 Asn Ser Lys Val Ser Lys Val Lys Pro Lys Gly Lys Val Arg Trp Thr  
 340 345 350  
 Gly Ser Arg Thr Arg Gly Arg Trp Lys Tyr Ser Ser Asn Asp Glu Ser  
 355 360 365  
 Glu Gly Ser Gly Ser Glu Lys Ser Ser Ala Ala Ser Glu Glu Glu  
 370 375 380  
 Glu Lys Glu Ser Glu Glu Ala Ile Leu Ala Asp Asp Asp Glu Pro Cys  
 385 390 395 400  
 Lys Lys Cys Gly Leu Pro Asn His Pro Glu Leu Ile Leu Leu Cys Asp

```

          405          410          415
Ser Cys Asp Ser Gly Tyr His Thr Ala Leu Pro Phe Ala Pro Pro Leu
          420          425          430
Met Ile His Pro Gln Met Gly Gly Trp Phe Cys Pro Thr Phe Cys Pro
          435          440          445
Thr Leu Asn Leu Leu Leu Leu Lys Leu Glu Asp Gln Phe Gln Asp
          450          455          460
Leu Asp Val Ala Leu Lys Lys Glu Arg Ala Leu Pro Glu Arg Arg Lys
465          470          475          480
Glu Arg Leu Val Tyr Val Gly Ile Ser Ile Glu Asn Ile Ile Pro Pro
          485          490          495
Gln Glu Pro Asp Phe Ser Glu Asp Gln Glu Glu Lys Lys Lys Asp Ser
          500          505          510
Lys Lys Ser Lys Ala Asn Leu Leu Glu Arg Arg Ser Thr Arg Thr Arg
          515          520          525
Lys Cys Ile Ser Tyr Arg Phe Asp Glu Phe Asp Glu Ala Ile Asp Glu
          530          535          540
Ala Ile Glu Asp Asp Ile Lys Glu Ala Asp Gly Gly Gly Val Gly Arg
545          550          555          560
Gly Lys Asp Ile Ser Thr Ile Thr Gly His Arg Gly Lys Asp Ile Ser
          565          570          575
Thr Ile Leu Asp Glu Glu Arg
          580          583

```

<210> 913  
 <211> 178  
 <212>Amino acid  
 <213> Homo sapiens

```

          <400> 913
Lys Arg Arg Gly Ser Phe Lys Met Ala Glu Leu Asp Gln Leu Pro Asp
  1          5          10          15
Glu Ser Ser Ser Ala Lys Ala Leu Val Ser Leu Lys Glu Gly Ser Leu
          20          25          30
Ser Asn Thr Trp Asn Glu Lys Tyr Ser Ser Leu Gln Lys Thr Pro Val
          35          40          45
Trp Lys Gly Arg Asn Thr Ser Ser Ala Val Glu Met Pro Phe Arg Asn
          50          55          60
Ser Lys Arg Ser Arg Leu Phe Ser Asp Glu Asp Asp Arg Gln Ile Asn
          65          70          75          80
Thr Arg Ser Pro Lys Arg Asn Gln Arg Val Ala Met Val Pro Gln Lys
          85          90          95
Phe Thr Ala Thr Met Ser Thr Pro Asp Lys Lys Ala Ser Gln Lys Ile
          100          105          110
Gly Phe Arg Leu Arg Asn Leu Leu Lys Leu Pro Lys Ala His Lys Trp
          115          120          125
Cys Ile Tyr Glu Trp Phe Tyr Ser Asn Ile Asp Lys Pro Leu Phe Glu
          130          135          140
Gly Asp Asn Asp Phe Cys Val Cys Leu Lys Glu Ser Phe Pro Asn Leu
145          150          155          160
Lys Thr Arg Lys Leu Thr Arg Val Glu Trp Gly Lys Ile Arg Arg Leu
          165          170          175
Met Gly
          178

```

<210> 914  
 <211> 158  
 <212>Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(158)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 914

```

Met Pro Glu Tyr Leu Arg Lys Arg Phe Gly Gly Ile Arg Ile Pro Ile
 1           5           10           15
Ile Leu Ala Val Leu Tyr Leu Phe Ile Tyr Ile Phe Thr Lys Ile Ser
           20           25           30
Val Asp Met Tyr Ala Gly Ala Ile Phe Ile Gln Gln Ser Leu His Leu
           35           40           45
Asp Leu Tyr Leu Ala Ile Val Gly Leu Leu Ala Ile Thr Ala Val Tyr
           50           55           60
Thr Val Ala Gly Gly Leu Ala Ala Val Ile Tyr Thr Asp Ala Leu Gln
           65           70           75           80
Thr Leu Ile Met Leu Ile Gly Ala Leu Thr Leu Met Gly Tyr Ser Phe
           85           90           95
Ala Ala Val Gly Gly Met Glu Gly Leu Lys Glu Lys Tyr Phe Leu Ala
           100          105          110
Leu Ala Ser Asn Arg Ser Glu Asn Ser Ser Cys Gly Leu Pro Arg Glu
           115          120          125
Asp Ala Phe His Ile Phe Arg Asp Pro Leu Thr Ser Asp Leu Pro Trp
           130          135          140
Pro Gly Val Leu Phe Gly Met Ser Ile Pro Ser Leu Xaa *
145           150           155          157

```

&lt;210&gt; 915

&lt;211&gt; 108

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(108)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 915

```

Xaa Ser Ala Ser Ala Thr Ser Leu Thr Leu Ser His Cys Val Asp Val
 1           5           10           15
Val Lys Gly Leu Leu Asp Phe Lys Lys Arg Arg Gly His Ser Ile Gly
           20           25           30
Gly Ala Pro Glu Gln Arg Tyr Gln Ile Ile Pro Val Met Cys Cys Ser
           35           40           45
Leu Leu Ala Thr Gly Gly Ala Asp Arg Leu Ile His Leu Trp Asn Val
           50           55           60
Val Gly Ser Arg Leu Glu Ala Asn Gln Thr Leu Glu Gly Ala Gly Gly
           65           70           75           80
Ser Ile Thr Ser Val Asp Phe Asp Pro Ser Gly Tyr Gln Val Leu Ala
           85           90           95
Ala Thr Tyr Asn Gln Val Ala Gln Phe Trp Lys *
           100          105          107

```



<210> 916  
 <211> 45  
 <212>Amino acid  
 <213> Homo sapiens

<400> 916  
 Gln Lys Arg Phe Pro Ser Asn Cys Gly Arg Asp Gly Lys Leu Phe Leu  
 1 5 10 15  
 Trp Gly Gln Ala Leu His Ile Ile Ala Lys Leu Leu Gly Lys Trp Arg  
 20 25 30  
 Arg Leu Gly Met Val Phe Phe Ser Leu Leu Leu Ser Tyr  
 35 40 45

<210> 917  
 <211> 180  
 <212>Amino acid  
 <213> Homo sapiens

<400> 917  
 Val His Val Cys Ser Ser Lys Met Gly Ala Leu Ser Thr Glu Arg Leu  
 1 5 10 15  
 Gln Tyr Tyr Thr Gln Glu Leu Gly Val Arg Glu Arg Ser Gly His Ser  
 20 25 30  
 Val Ser Leu Ile Asp Leu Trp Gly Leu Leu Val Glu Tyr Leu Leu Tyr  
 35 40 45  
 Gln Glu Glu Asn Pro Ala Lys Leu Ser Asp Gln Gln Glu Ala Val Arg  
 50 55 60  
 Gln Gly Gln Asn Pro Tyr Pro Ile Tyr Thr Ser Val Asn Val Arg Thr  
 65 70 75 80  
 Asn Leu Ser Gly Glu Asp Phe Ala Glu Trp Cys Glu Phe Thr Pro Tyr  
 85 90 95  
 Glu Val Gly Phe Pro Lys Tyr Gly Ala Tyr Val Pro Thr Glu Leu Phe  
 100 105 110  
 Gly Ser Glu Leu Phe Met Gly Arg Leu Leu Gln Leu Gln Pro Glu Pro  
 115 120 125  
 Arg Ile Cys Tyr Leu Gln Gly Met Trp Gly Ser Ala Phe Ala Thr Ser  
 130 135 140  
 Leu Asp Glu Ile Phe Leu Lys Thr Ala Gly Ser Gly Leu Ser Phe Leu  
 145 150 155 160  
 Glu Trp Tyr Arg Gly Ser Val Asn Ile Thr Asp Asp Cys Gln Lys Pro  
 165 170 175  
 Gln Leu His Asn  
 180

<210> 918  
 <211> 281  
 <212>Amino acid  
 <213> Homo sapiens

&lt;400&gt; 918

```

Glu Phe Leu Gly Arg Pro Thr Arg Pro Ala Lys Asp Glu Gly Asn Asp
 1           5           10           15
Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 20           25           30
Glu Gly Lys Asp Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp
 35           40           45
Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 50           55           60
Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
 65           70           75           80
Glu Gly Lys Asp Glu Gly Asn Asp Glu Gly Lys Asp Glu Gly Lys Asp
 85           90           95
Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
100           105           110
Glu Arg Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Arg Lys Asp
115           120           125
Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
130           135           140
Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Asn Asp
145           150           155           160
Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
165           170           175
Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Asn Asp Glu Gly Asn Asp
180           185           190
Glu Gly Asn Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Arg Asn Asp
195           200           205
Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
210           215           220
Glu Arg Asn Asp Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp
225           230           235           240
Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp
245           250           255
Glu Gly Asn Asp Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp
260           265           270
Glu Gly Lys Asp Glu Gly Lys Asp Lys
275           280 281

```

&lt;210&gt; 919

&lt;211&gt; 147

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 919

```

Pro Ser Leu Arg Pro Ala Trp His Glu Gly Glu Asp Phe Ser Tyr Gly
 1           5           10           15
Leu Gln Pro Tyr Cys Gly Tyr Ser Phe Gln Val Val Gly Glu Met Ile
 20           25           30
Arg Asn Arg Glu Val Leu Pro Cys Pro Asp Asp Cys Pro Ala Trp Ala
 35           40           45
Tyr Ala Leu Met Ile Glu Gly Trp Asn Glu Phe Pro Ser Arg Arg Ala
 50           55           60
Arg Phe Lys Asp Ile His Ser Arg Leu Arg Ala Trp Gly Asn Leu Ser
 65           70           75           80
Asn Tyr Asn Ser Ser Glu Gln Thr Ser Gly Gly Arg Asn Thr Thr Gln
 85           90           95
Thr Ser Ser Leu Ser Thr Ser Pro Leu Cys Asn Val Ser Asn Ala Pro
100           105           110
Tyr Val Gly Pro Lys Gln Lys Val Pro Pro Phe Pro Gln Thr Gln Val

```

115 120 125  
 Ile Pro Met Lys Gly Gln Ile Arg Pro Met Val Pro Pro Pro Gln Leu  
 130 135 140  
 Tyr Val Pro  
 145 147

<210> 920  
 <211> 150  
 <212> Amino acid  
 <213> Homo sapiens

<400> 920  
 Arg Asn Ser Gly Arg His Pro Arg Val Arg Trp Ile Leu Glu Glu Arg  
 1 5 10 15  
 Lys Arg Val Met Gln Glu Ala Cys Ala Lys Tyr Arg Ala Ser Ser Ser  
 20 25 30  
 Arg Arg Ala Val Thr Pro Arg His Val Ser Arg Ile Phe Val Glu Asp  
 35 40 45  
 Arg His Arg Val Leu Tyr Cys Glu Val Pro Lys Ala Gly Cys Ser Asn  
 50 55 60  
 Trp Lys Arg Val Leu Met Val Leu Ala Gly Leu Ala Ser Ser Thr Ala  
 65 70 75 80  
 Asp Ile Gln His Asn Thr Val His Tyr Gly Ser Ala Leu Lys Arg Leu  
 85 90 95  
 Asp Thr Phe Asp Arg Gln Gly Ile Leu His Arg Leu Ser Thr Tyr Thr  
 100 105 110  
 Lys Met Leu Phe Val Arg Glu Pro Phe Glu Arg Leu Val Ser Ala Phe  
 115 120 125  
 Arg Asp Lys Phe Glu His Pro Asn Ser Tyr Tyr His Pro Val Phe Cys  
 130 135 140  
 Met Ala Ile Leu Ala Arg  
 145 150

<210> 921  
 <211> 125  
 <212> Amino acid  
 <213> Homo sapiens

<400> 921  
 Ile Met Tyr Ser Ile Ser Pro Ala Asn Ser Glu Glu Gly Gln Glu Leu  
 1 5 10 15  
 Tyr Val Cys Thr Val Lys Asp Asp Val Asn Leu Asp Thr Val Leu Leu  
 20 25 30  
 Leu Pro Phe Leu Lys Glu Ile Ala Val Ser Gln Leu Asp Gln Leu Ser  
 35 40 45  
 Pro Glu Glu Gln Leu Leu Val Lys Cys Ala Ala Ile Ile Gly His Ser  
 50 55 60  
 Phe His Ile Asp Leu Leu Gln His Leu Leu Pro Gly Trp Asp Lys Asn  
 65 70 75 80  
 Lys Leu Leu Gln Val Leu Arg Ala Leu Val Asp Ile His Val Leu Cys  
 85 90 95  
 Trp Ser Asp Lys Ser Gln Glu Leu Pro Ala Glu Pro Ile Leu Met Pro  
 100 105 110  
 Ser Ser Ile Asp Ile Ile Asp Gly Thr Lys Glu Lys Lys

115

120

125

<210> 922  
 <211> 111  
 <212>Amino acid  
 <213> Homo sapiens

<400> 922  
 Gly Pro His Val Val Leu Val Leu Arg Arg Cys Phe Leu Leu Ser Tyr  
 1 5 10 15  
 Phe Lys Gly Val Glu Lys Ala Lys Ala Met Pro Ser Pro Arg Ile Leu  
 20 25 30  
 Lys Thr His Leu Ser Thr Gln Leu Leu Pro Pro Ser Phe Trp Glu Asn  
 35 40 45  
 Asn Cys Lys Val Arg Tyr Gln Gln Leu Pro Val Thr Glu Gly Lys Val  
 50 55 60  
 Ser Gln Pro Lys Arg Val Leu Gln Thr Pro Thr Gln Ser Ile Arg Asp  
 65 70 75 80  
 His Leu Cys Leu Ser Thr Val Ser Asp Ala Tyr Gln Gln Arg Glu Asn  
 85 90 95  
 Ile Lys Phe Tyr Ile Gln Gln Asp Ile His Leu Asn Ser Phe Lys  
 100 105 110 111

<210> 923  
 <211> 69  
 <212>Amino acid  
 <213> Homo sapiens

<400> 923  
 Phe Tyr Tyr Ile Cys Arg Leu Ser Lys Glu Asp Lys Ala Phe Leu Trp  
 1 5 10 15  
 Glu Lys Arg Tyr Tyr Cys Phe Lys His Pro Asn Cys Leu Pro Lys Ile  
 20 25 30  
 Leu Ala Ser Ala Pro Asn Trp Lys Trp Val Asn Leu Ala Lys Thr Tyr  
 35 40 45  
 Ser Leu Leu His Gln Trp Pro Ala Leu Tyr Pro Leu Ile Ala Leu Glu  
 50 55 60  
 Leu Leu Asp Ser Lys  
 65 69

<210> 924  
 <211> 120  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(120)  
 <223> X = any amino acid or stop code

&lt;400&gt; 924

```

Lys Met Met Ile Xaa Gly Leu Phe Glu Ile Gln Gln Cys Pro Ile Gly
 1           5           10           15
Lys His Cys Asn Phe Leu Gln Val Leu Arg Asn Pro Asn Arg Asp Leu
           20           25           30
Trp Leu Val Ser Ser Phe Gly Lys Ser Ser Lys Gly Arg Glu Arg Met
 35           40           45
Gly His His Asp Glu Tyr Tyr Arg Leu Arg Gly Arg His Asn Pro Ser
 50           55           60
Pro Asp His Ser Tyr Lys Arg Asn Gly Glu Ser Glu Arg Lys Arg Lys
 65           70           75           80
Lys Ser His Xaa His Met Ser Lys Ser Gln Glu Arg His Asn Ser Pro
           85           90           95
Ser Arg Gly Arg Asn Ser Asp Arg Ser Gly Gly Arg Cys Ser Arg Ser
           100          105          110
Asp Asn Gly Arg Ser Arg Tyr Arg
      115          120

```

&lt;210&gt; 925

&lt;211&gt; 108

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(108)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 925

```

Pro Leu Ser Leu Phe Ala Arg Val Ala Gly Ser Arg Val Glu Met Pro
 1           5           10           15
Glu Pro Pro Gly Leu Gly Asp Glu Gly Arg Pro Leu Leu His Pro Gly
           20           25           30
Arg Arg Glu Ala Val Gly Ser Trp Val Ser Ala Phe Ala Gly Asp Ser
 35           40           45
Thr Pro Cys Gly Pro Gly Asp Leu Ser Val Pro Arg Arg Glu Pro Phe
 50           55           60
Arg Leu Thr Ala Leu Xaa Pro His Arg Ser Pro Val Val Arg Thr Ser
 65           70           75           80
Leu Ile Gly Leu Leu Leu Gly Phe Ser Val Lys Glu Glu Leu Arg Gly
           85           90           95
Val Gly Trp Ala Ala Arg Thr Pro Leu Gly Ile Arg
           100          105          108

```

&lt;210&gt; 926

&lt;211&gt; 305

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 926

```

Phe Asp Lys Arg Gln His Glu Ala Arg Ile Gln Gln Met Glu Asn Glu
 1           5           10           15
Ile His Tyr Leu Gln Glu Asn Leu Lys Ser Met Glu Glu Ile Gln Gly

```

20 25 30  
 Leu Thr Asp Leu Gln Leu Gln Glu Ala Asp Glu Glu Lys Glu Arg Ile  
 35 40 45  
 Leu Ala Gln Leu Arg Glu Leu Glu Lys Lys Lys Lys Leu Glu Asp Ala  
 50 55 60  
 Lys Ser Gln Glu Gln Val Phe Gly Leu Asp Lys Glu Leu Lys Lys Leu  
 65 70 75 80  
 Lys Lys Ala Val Ala Thr Ser Asp Lys Leu Ala Thr Ala Glu Leu Thr  
 85 90 95  
 Ile Ala Lys Asp Gln Leu Lys Ser Leu His Gly Thr Val Met Lys Ile  
 100 105 110  
 Asn Gln Glu Arg Ala Glu Glu Leu Gln Glu Ala Glu Arg Phe Ser Arg  
 115 120 125  
 Lys Ala Ala Gln Ala Ala Arg Asp Leu Thr Arg Ala Glu Ala Glu Ile  
 130 135 140  
 Glu Leu Leu Gln Asn Leu Leu Arg Gln Lys Gly Glu Gln Phe Arg Leu  
 145 150 155 160  
 Glu Met Glu Lys Thr Gly Val Gly Thr Gly Ala Asn Ser Gln Val Leu  
 165 170 175  
 Glu Ile Glu Lys Leu Asn Glu Thr Met Glu Arg Gln Arg Thr Glu Ile  
 180 185 190  
 Ala Arg Leu Gln Asn Val Leu Tyr Leu Thr Gly Ser Asp Asn Lys Gly  
 195 200 205  
 Gly Phe Glu Asn Val Leu Glu Glu Ile Ala Glu Leu Arg Arg Glu Gly  
 210 215 220  
 Ser Tyr Gln Asn Asp Tyr Ile Ser Ser Met Ala Asp Pro Phe Lys Arg  
 225 230 235 240  
 Arg Gly Tyr Trp Tyr Phe Met Pro Pro Pro Pro Ser Ser Lys Val Ser  
 245 250 255  
 Ser His Ser Ser Gln Ala Thr Lys Asp Ser Gly Val Gly Leu Lys Tyr  
 260 265 270  
 Ser Ala Ser Thr Pro Val Arg Lys Pro Arg Pro Gly Gln Gln Asp Gly  
 275 280 285  
 Lys Glu Gly Ser Gln Pro Pro Pro Ala Ser Gly Tyr Trp Val Tyr Ser  
 290 295 300  
 Pro  
 305

<210> 927  
 <211> 303  
 <212> Amino acid  
 <213> Homo sapiens

<400> 927  
 Ser Asp Ala Ser Ser Phe Lys Thr Arg Val Ile Val Val Pro Arg Pro  
 1 5 10 15  
 Arg Val Phe Pro Leu Gly Ser Ala Ile Thr Glu Asn Ser Leu Glu Ser  
 20 25 30  
 Asp Ser Gln Ile Gly Gln Phe Gly Val Gly Phe Tyr Ser Ala Phe Leu  
 35 40 45  
 Val Ala Asp Lys Val Ile Val Thr Ser Lys His Asn Asn Asp Thr Gln  
 50 55 60  
 His Ile Trp Glu Ser Asp Ser Asn Glu Phe Ser Val Ile Ala Asp Pro  
 65 70 75 80  
 Arg Gly Asn Thr Leu Gly Arg Gly Thr Thr Ile Thr Leu Val Leu Lys  
 85 90 95  
 Glu Glu Ala Ser Asp Tyr Leu Glu Leu Asp Thr Ile Lys Asn Leu Val  
 100 105 110  
 Lys Lys Tyr Ser Gln Phe Ile Asn Phe Pro Ile Tyr Val Trp Ser Ser

115	120	125
Lys Thr Glu Thr Val Glu Glu Pro Met Glu Glu Glu Glu Ala Ala Lys		
130	135	140
Glu Glu Lys Glu Glu Ser Asp Asp Glu Ala Ala Val Glu Glu Glu Glu		
145	150	155
Glu Glu Lys Lys Pro Lys Thr Lys Lys Val Glu Lys Thr Val Trp Asp		
165	170	175
Trp Glu Leu Met Asn Asp Ile Lys Pro Ile Trp Gln Arg Pro Ser Lys		
180	185	190
Glu Val Glu Glu Asp Glu Tyr Lys Ala Phe Tyr Lys Ser Phe Ser Lys		
195	200	205
Glu Ser Asp Asp Pro Met Ala Tyr Ile His Phe Thr Ala Glu Gly Glu		
210	215	220
Val Thr Phe Lys Ser Ile Leu Phe Val Pro Thr Ser Ala Pro Arg Gly		
225	230	235
Leu Phe Asp Glu Tyr Gly Ser Lys Lys Ser Asp Tyr Ile Lys Leu Tyr		
245	250	255
Val Arg Arg Val Phe Ile Thr Asp Asp Phe His Asp Met Met Pro Lys		
260	265	270
Tyr Leu Asn Phe Val Lys Gly Val Val Asp Ser Asp Asp Leu Pro Leu		
275	280	285
Asn Val Ser Arg Glu Thr Leu Gln Gln His Lys Leu Leu Lys Val		
290	295	300
		303

<210> 928  
 <211> 147  
 <212> Amino acid  
 <213> Homo sapiens

<400> 928
Cys Gly Ser Trp Met Arg Arg Ala Leu Ile Pro Pro Cys Arg Gly Gly
1 5 10 15
Pro Ser Ala Ser Asp Arg Cys Cys Ser Cys Ser Pro Ser Gly Phe Ser
20 25 30
Ala Gly Arg Gly Arg Cys Pro Val Gln Gly Cys Leu Arg Pro His Arg
35 40 45
Val Gln Leu Leu Arg Arg Trp Gly Pro Gly Ser Pro Ala Gly Gln Arg
50 55 60
Leu Ser Lys Gly Phe Gln Leu Leu Arg Trp Trp Gly Pro Gly Ser Pro
65 70 75 80
Ala Pro Glu Pro Arg Lys Gly Pro Phe Pro Pro Pro Asp Pro Pro Trp
85 90 95
Pro Val Thr Ala Val Thr Val Met Ala Gly Ser Val Pro Ser Ala Gln
100 105 110
Ser Val Asp Ala Leu Glu Ser Pro Gly Pro Leu Ala Leu Glu Gly Pro
115 120 125
Ser Ser Pro Arg Asn Leu Leu Trp Arg Glu Met Ser Ile Phe Leu Pro
130 135 140
Gly Ile Phe
145 147

<210> 929  
 <211> 183  
 <212> Amino acid  
 <213> Homo sapiens

&lt;400&gt; 929

```

Pro Gly Pro Thr Pro Pro Pro Arg His Gly Ser Pro Pro His Arg Leu
 1          5          10          15
Ile Arg Val Glu Thr Pro Gly Pro Pro Ala Pro Pro Ala Asp Glu Arg
          20          25          30
Ile Ser Gly Pro Pro Ala Ser Ser Asp Arg Leu Ala Ile Leu Glu Asp
          35          40          45
Tyr Ala Asp Pro Phe Asp Val Gln Glu Thr Gly Glu Gly Ser Ala Gly
          50          55          60
Ala Ser Gly Ala Pro Glu Lys Val Pro Glu Asn Asp Gly Tyr Met Glu
          65          70          75          80
Pro Tyr Glu Ala Gln Lys Met Met Ala Glu Ile Arg Gly Ser Lys Glu
          85          90          95
Thr Ala Thr Gln Pro Leu Pro Leu Tyr Asp Thr Pro Tyr Glu Pro Glu
          100          105          110
Glu Asp Gly Ala Thr Pro Glu Gly Glu Gly Ala Pro Trp Pro Arg Glu
          115          120          125
Ser Arg Leu Pro Glu Asp Asp Glu Arg Pro Pro Glu Glu Tyr Asp Gln
          130          135          140
Pro Trp Glu Trp Lys Lys Glu Arg Ile Ser Lys Ala Phe Ala Val Asp
          145          150          155          160
Ile Lys Val Ile Lys Asp Leu Pro Trp Pro Pro Val Gly Gln Leu
          165          170          175
Asp Ser Ser Pro Ser Leu Pro
          180          183

```

&lt;210&gt; 930

&lt;211&gt; 187

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 930

```

Gln Phe Phe Ser Leu Phe Leu Arg Tyr Gln Ile His Thr Gly Leu Gln
 1          5          10          15
His Ser Ile Ile Arg Pro Thr Gln Pro Asn Cys Leu Pro Leu Asp Asn
          20          25          30
Ala Thr Leu Pro Gln Lys Leu Lys Glu Val Gly Tyr Ser Thr His Met
          35          40          45
Val Gly Lys Trp His Leu Gly Phe Tyr Arg Lys Glu Cys Met Pro Thr
          50          55          60
Arg Arg Gly Phe Asp Thr Phe Phe Gly Ser Leu Leu Gly Ser Gly Asp
          65          70          75          80
Tyr Tyr Thr His Tyr Lys Cys Asp Ser Pro Gly Met Cys Gly Tyr Asp
          85          90          95
Leu Tyr Glu Asn Asp Asn Ala Ala Trp Asp Tyr Asp Asn Gly Ile Tyr
          100          105          110
Ser Thr Gln Met Tyr Thr Gln Arg Val Gln Gln Ile Leu Ala Ser His
          115          120          125
Asn Pro Thr Lys Pro Ile Phe Leu Tyr Ile Ala Tyr Gln Ala Val His
          130          135          140
Ser Pro Leu Gln Ala Pro Gly Arg Tyr Phe Glu His Tyr Arg Ser Ile
          145          150          155          160
Ile Asn Ile Asn Arg Arg Tyr Ala Ala Met Leu Ser Cys Leu Asp
          165          170          175
Glu Ala Ile Asn Asn Val Thr Leu Ala Leu Lys
          180          185          187

```



<210> 931  
 <211> 192  
 <212>Amino acid  
 <213> Homo sapiens

<400> 931  
 Arg Val Arg Lys Gly Arg Gly Gly Glu Arg Leu Gln Ser Pro Leu Arg  
 1 5 10 15  
 Val Pro Gln Lys Pro Glu Arg Pro Pro Leu Pro Pro Lys Pro Gln Phe  
 20 25 30  
 Leu Asn Ser Gly Ala Tyr Pro Gln Lys Pro Leu Arg Asn Gln Gly Val  
 35 40 45  
 Val Arg Thr Leu Ser Ser Ser Ala Gln Glu Asp Ile Ile Arg Trp Phe  
 50 55 60  
 Lys Glu Glu Gln Leu Pro Leu Arg Ala Gly Tyr Gln Lys Thr Ser Asp  
 65 70 75 80  
 Thr Ile Ala Pro Trp Phe His Gly Ile Leu Thr Leu Lys Lys Ala Asn  
 85 90 95  
 Glu Leu Leu Leu Ser Thr Gly Met Pro Gly Ser Phe Leu Ile Arg Val  
 100 105 110  
 Ser Glu Arg Ile Lys Gly Tyr Ala Leu Ser Tyr Leu Ser Glu Asp Gly  
 115 120 125  
 Cys Lys His Phe Leu Ile Asp Ala Ser Ala Asp Ala Tyr Ser Phe Leu  
 130 135 140  
 Gly Val Asp Gln Leu Gln His Ala Thr Leu Ala Asp Leu Val Glu Tyr  
 145 150 155 160  
 His Lys Glu Glu Pro Ile Thr Ser Leu Gly Lys Glu Leu Leu Leu Tyr  
 165 170 175  
 Pro Cys Gly Gln Gln Asp Gln Leu Pro Asp Tyr Leu Glu Leu Phe Glu  
 180 185 190 192

<210> 932  
 <211> 545  
 <212>Amino acid  
 <213> Homo sapiens

<400> 932  
 Gly Ser Leu Glu Lys Ala Leu Phe Gln Leu Leu Lys Val Trp Gly Gln  
 1 5 10 15  
 Trp Ala Glu Gln Thr Arg Arg Leu Gln Arg Leu Asp Val Ser Leu Ser  
 20 25 30  
 Val Ala Arg Val Arg Ser Ala Gly Pro Ser Cys Gln Asn Lys Gly Asp  
 35 40 45  
 Leu Val Met Glu Ala Leu Leu Glu Gly Ile Gln Asn Arg Gly His Gly  
 50 55 60  
 Gly Gly Phe Leu Thr Ser Cys Glu Ala Glu Leu Gln Glu Leu Met Lys  
 65 70 75 80  
 Gln Ile Asp Ile Met Val Ala His Lys Lys Ser Glu Trp Glu Gly Arg  
 85 90 95  
 Thr His Ala Leu Glu Thr Cys Leu Lys Ile Arg Glu Gln Glu Leu Lys  
 100 105 110  
 Ser Leu Arg Ser Gln Leu Asp Val Thr His Lys Glu Val Gly Met Leu

115	120	125
His Gln Gln Val Glu Glu	His Glu Lys Ile Lys	Gln Glu Met Thr Met
130	135	140
Glu Tyr Lys Gln Glu Leu	Lys Lys Leu His Glu	Glu Leu Cys Ile Leu
145	150	155
Lys Arg Ser Tyr Glu Lys	Leu Gln Lys Lys Met	Arg Glu Phe Arg
165	170	175
Gly Asn Thr Lys Asn His	Arg Glu Asp Arg Ser	Glu Ile Glu Arg Leu
180	185	190
Thr Ala Lys Ile Glu Glu	Phe Arg Gln Lys Ser	Leu Asp Trp Glu Lys
195	200	205
Gln Arg Leu Ile Tyr Gln	Gln Gln Val Ser Ser	Leu Glu Ala Gln Arg
210	215	220
Lys Ala Leu Ala Glu Gln	Ser Glu Ile Ile Gln	Ala Gln Leu Val Asn
225	230	235
Arg Lys Gln Lys Leu Glu	Ser Val Glu Leu Ser	Ser Gln Ser Glu Ile
245	250	255
Gln His Leu Ser Ser Lys	Leu Glu Arg Ala Asn	Asp Thr Ile Cys Ala
260	265	270
Asn Glu Leu Glu Ile Glu	Arg Leu Thr Met Arg	Val Asn Asp Leu Val
275	280	285
Gly Thr Ser Met Thr Val	Leu Gln Glu Gln Gln	Gln Lys Glu Glu Lys
290	295	300
Leu Arg Glu Ser Glu Lys	Leu Leu Glu Ala Leu	Gln Glu Glu Lys Arg
305	310	315
Glu Leu Lys Ala Ala Leu	Gln Ser Gln Glu Asn	Leu Ile His Glu Ala
325	330	335
Arg Ile Gln Lys Glu Lys	Leu Gln Glu Lys Val	Lys Ala Thr Asn Thr
340	345	350
Gln His Ala Val Glu Ala	Ile Ser Leu Glu Ser	Val Ser Ala Thr Cys
355	360	365
Lys Gln Leu Ser Gln Glu	Leu Met Glu Lys Tyr	Glu Glu Leu Lys Arg
370	375	380
Met Glu Ala His Asn Asn	Glu Tyr Lys Ala Glu	Ile Lys Lys Leu Lys
385	390	395
Glu Gln Ile Leu Gln Gly	Glu Gln Ser Tyr Ser	Ser Ala Leu Glu Gly
405	410	415
Met Lys Met Glu Ile Ser	His Leu Thr Gln Glu	Leu His Gln Arg Asp
420	425	430
Ile Thr Ile Ala Ser Thr	Lys Gly Ser Ser Ser	Asp Met Glu Lys Arg
435	440	445
Leu Arg Ala Glu Met Gln	Lys Ala Glu Asp Lys	Ala Val Glu His Lys
450	455	460
Glu Ile Leu Asp Gln Leu	Glu Ser Leu Lys Leu	Glu Asn Arg His Leu
465	470	475
Ser Glu Met Val Met Lys	Leu Glu Leu Gly Leu	His Glu Cys Ser Leu
485	490	495
Pro Val Ser Pro Leu Gly	Ser Ile Ala Thr Arg	Phe Leu Glu Glu Glu
500	505	510
Glu Leu Arg Ser His His	Ile Leu Glu Arg Leu	Asp Ala His Ile Glu
515	520	525
Glu Leu Lys Arg Glu Ser	Glu Lys Thr Val Arg	Gln Phe Thr Ala Leu
530	535	540
Lys		
545		

<210> 933  
 <211> 297  
 <212> Amino acid  
 <213> Homo sapiens

<400> 933

Thr	Gly	Phe	Leu	Gly	Trp	Ser	Gln	Gly	Pro	Ser	Leu	Thr	Pro	Thr	Ser
1				5					10					15	
Leu	Ser	Ala	Leu	Tyr	Pro	Ser	Gln	Val	Glu	Glu	Thr	Gly	Val	Val	Leu
			20					25					30		
Ser	Leu	Glu	Gln	Thr	Glu	Gln	His	Ser	Arg	Arg	Pro	Ile	Gln	Arg	Gly
		35					40					45			
Ala	Pro	Ser	Gln	Lys	Asp	Thr	Pro	Asn	Pro	Gly	Asp	Ser	Leu	Asp	Thr
	50					55					60				
Pro	Gly	Pro	Arg	Ile	Leu	Ala	Phe	Leu	His	Pro	Pro	Ser	Leu	Ser	Glu
	65				70					75					80
Ala	Ala	Leu	Ala	Ala	Asp	Pro	Arg	Arg	Phe	Cys	Ser	Pro	Asp	Leu	Arg
				85					90					95	
Arg	Leu	Leu	Gly	Pro	Ile	Leu	Asp	Gly	Ala	Ser	Val	Ala	Ala	Thr	Pro
			100					105					110		
Ser	Thr	Pro	Leu	Ala	Thr	Arg	His	Pro	Gln	Ser	Pro	Leu	Ser	Ala	Asp
		115					120					125			
Leu	Pro	Asp	Glu	Leu	Pro	Val	Gly	Thr	Glu	Asn	Val	His	Arg	Leu	Phe
	130					135					140				
Thr	Ser	Gly	Lys	Asp	Thr	Glu	Ala	Val	Glu	Thr	Asp	Leu	Asp	Ile	Ala
	145				150					155					160
Gln	Asp	Ala	Asp	Ala	Leu	Asp	Leu	Glu	Met	Leu	Ala	Pro	Tyr	Ile	Ser
				165					170					175	
Met	Asp	Asp	Asp	Phe	Gln	Leu	Asn	Ala	Ser	Glu	Gln	Leu	Pro	Arg	Ala
			180					185					190		
Tyr	His	Arg	Pro	Leu	Gly	Ala	Val	Pro	Arg	Pro	Arg	Ala	Arg	Ser	Phe
		195					200					205			
His	Gly	Leu	Ser	Pro	Pro	Ala	Leu	Glu	Pro	Ser	Leu	Leu	Pro	Arg	Trp
	210					215						220			
Gly	Ser	Asp	Pro	Arg	Leu	Ser	Cys	Ser	Ser	Pro	Ser	Arg	Gly	Asp	Pro
	225				230					235					240
Ser	Ala	Ser	Ser	Pro	Met	Ala	Gly	Ala	Arg	Lys	Arg	Thr	Leu	Ala	Gln
				245					250					255	
Ser	Ser	Lys	Asp	Glu	Asp	Glu	Gly	Val	Glu	Leu	Leu	Gly	Val	Arg	Pro
			260					265					270		
Pro	Lys	Arg	Ser	Pro	Ser	Pro	Glu	His	Glu	Asn	Phe	Leu	Leu	Phe	Pro
		275					280					285			
Leu	Ser	Leu	Ser	Phe	Leu	Leu	Thr	Gly							
	290					295		297							

<210> 934

<211> 140

<212> Amino acid

<213> Homo sapiens

<400> 934

Glu	Leu	Gln	Asp	Cys	Phe	Asp	Val	His	Asp	Ala	Ser	Trp	Glu	Glu	Gln
1				5					10					15	
Ile	Phe	Trp	Gly	Trp	His	Asn	Asp	Val	His	Ile	Phe	Asp	Thr	Lys	Thr
		20						25					30		
Gln	Thr	Trp	Phe	Gln	Pro	Glu	Ile	Lys	Gly	Gly	Val	Pro	Pro	Gln	Pro
		35					40					45			
Arg	Ala	Ala	His	Thr	Cys	Ala	Val	Leu	Gly	Asn	Lys	Gly	Tyr	Ile	Phe
	50					55					60				
Gly	Gly	Arg	Val	Leu	Gln	Thr	Arg	Met	Asn	Asp	Leu	His	Tyr	Leu	Asn
	65				70					75				80	
Leu	Asp	Thr	Trp	Thr	Trp	Ser	Gly	Arg	Ile	Thr	Ile	Asn	Gly	Glu	Ser

				85					90				95				
Pro	Lys	His	Arg	Ser	Trp	His	Thr	Leu	Thr	Pro	Ile	Ala	Asp	Asp	Lys		
			100					105					110				
Leu	Phe	Leu	Cys	Gly	Gly	Leu	Asn	Ala	Tyr	Asn	Met	Pro	Leu	Ser	Asp		
		115					120					125					
Gly	Trp	Ile	His	Asn	Val	Thr	Thr	His	Cys	Trp	Lys						
	130					135					140						

<210> 935  
 <211> 97  
 <212>Amino acid  
 <213> Homo sapiens

<400> 935

Phe	Phe	Phe	Leu	Arg	Thr	Arg	Ser	His	Ser	Val	Thr	Pro	Arg	Trp	Glu		
1				5					10					15			
Cys	Ser	Asp	Asp	Ile	Thr	Ala	His	Trp	Gln	Pro	Gln	Pro	Trp	Gly	Ser		
		20						25					30				
Ser	Asp	Pro	Leu	Thr	Phe	Ser	Arg	Pro	Gln	Val	Val	Val	Pro	Pro	Arg		
		35					40					45					
His	Thr	Thr	Leu	Cys	Pro	Ala	Asn	Phe	Phe	Val	Phe	Cys	Ile	Phe	Cys		
	50					55				60							
Arg	Asn	Arg	Ile	Ser	Pro	Cys	Trp	Pro	Gly	Trp	Ser	Arg	Thr	Pro	Trp		
	65				70					75				80			
Ala	Gln	Leu	Ile	Arg	Leu	Pro	Arg	Pro	Pro	Lys	Val	Leu	Gly	Leu	Gln		
				85					90					95			

Val  
97

<210> 936  
 <211> 245  
 <212>Amino acid  
 <213> Homo sapiens

<400> 936

Pro	Arg	Glu	Gly	Gln	Val	Lys	Gln	Gly	Leu	Leu	Gly	Asp	Cys	Trp	Phe		
1				5				10					15				
Leu	Cys	Ala	Cys	Ala	Ala	Leu	Gln	Lys	Ser	Arg	His	Leu	Leu	Asp	Gln		
		20						25				30					
Val	Ile	Pro	Pro	Gly	Gln	Pro	Ser	Trp	Ala	Asp	Gln	Glu	Tyr	Arg	Gly		
		35					40					45					
Ser	Phe	Thr	Cys	Arg	Ile	Trp	Gln	Phe	Gly	Arg	Trp	Val	Glu	Val	Thr		
	50					55				60							
Thr	Asp	Asp	Arg	Leu	Pro	Cys	Leu	Ala	Gly	Arg	Leu	Cys	Phe	Ser	Arg		
	65				70					75				80			
Cys	Gln	Arg	Glu	Asp	Val	Phe	Trp	Leu	Pro	Leu	Leu	Glu	Lys	Val	Tyr		
				85					90				95				
Ala	Lys	Val	His	Gly	Ser	Tyr	Glu	His	Leu	Trp	Ala	Gly	Gln	Val	Ala		
		100						105				110					
Asp	Ala	Leu	Val	Asp	Leu	Thr	Gly	Gly	Leu	Ala	Glu	Arg	Trp	Asn	Leu		
		115					120					125					
Lys	Gly	Val	Ala	Gly	Ser	Gly	Gly	Gln	Gln	Asp	Arg	Pro	Gly	Arg	Trp		
	130					135					140						

Glu His Arg Thr Cys Arg Gln Leu Leu His Leu Lys Asp Gln Cys Leu

```

145          150          155          160
Ile Ser Cys Cys Val Leu Ser Pro Arg Ala Gly Glu Ala Arg Gly Gln
          165          170          175
His Gly Arg Ala Ala Ala Ser Val Pro Pro Thr Ala Arg Pro Gln Ala
          180          185          190
His Cys Ser Phe Leu Cys Asp Trp Leu His Ser Pro Val Arg Thr Lys
          195          200          205
Trp Glu Glu Val Ser Leu Phe Ser Arg Val Val Ser Ser Val Cys Asp
          210          215          220
Leu Pro Leu Leu Ser Ser Ser Arg Gly Thr Trp Pro Phe Ser Pro Leu
225          230          235          240
Thr Ser Pro Phe His
          245

```

```

<210> 937
<211> 211
<212>Amino acid
<213> Homo sapiens

```

```

<400> 937
Ala Glu Cys Leu Glu Ala Ser Ile Ala Arg Tyr Ala His Arg Val Ala
 1          5          10          15
Asn Ser Arg Tyr Thr Phe Asp Gly Glu Thr Val Thr Leu Ser Pro Ser
          20          25          30
Gln Gly Val Asn Gln Leu His Gly Gly Pro Glu Gly Phe Asp Lys Arg
          35          40          45
Arg Trp Gln Ile Val Asn Gln Asn Asp Arg Gln Val Leu Phe Ala Leu
          50          55          60
Ser Ser Asp Asp Gly Asp Gln Gly Phe Pro Gly Asn Leu Gly Ala Thr
          65          70          75          80
Val Gln Tyr Arg Leu Thr Asp Asp Asn Arg Ile Ser Ile Thr Tyr Arg
          85          90          95
Ala Thr Val Asp Lys Pro Cys Pro Val Asn Met Thr Asn His Val Tyr
          100          105          110
Phe Asn Leu Asp Gly Glu Gln Ser Asp Val Arg Asn His Lys Leu Gln
          115          120          125
Ile Leu Ala Asp Glu Tyr Leu Pro Val Asp Glu Gly Gly Ile Pro His
          130          135          140
Asp Gly Leu Lys Ser Val Ala Gly Thr Ser Phe Asp Phe Arg Ser Ala
145          150          155          160
Lys Ile Ile Ala Ser Glu Phe Leu Ala Asp Asp Asp Gln Arg Lys Val
          165          170          175
Lys Gly Tyr Asp His Ala Phe Leu Leu Gln Ala Lys Gly Asp Gly Lys
          180          185          190
Lys Val Ala Ala His Val Trp Ser Ala Asp Glu Lys Leu Gln Leu Lys
          195          200          205
Val Tyr Thr
210 211

```

```

<210> 938
<211> 118
<212>Amino acid
<213> Homo sapiens

```

&lt;400&gt; 938

```

Pro Leu Ser Arg Phe Leu Ser Lys Glu Ser Gln Glu Asp Trp Gly Met
 1           5           10           15
Glu Arg Gln Ser Arg Val Met Ser Glu Lys Asp Glu Tyr Gln Phe Gln
          20           25           30
His Gln Gly Ala Val Glu Leu Leu Val Phe Asn Phe Leu Leu Ile Leu
        35           40           45
Thr Ile Leu Thr Ile Trp Leu Phe Lys Asn His Arg Phe Arg Phe Leu
        50           55           60
His Glu Thr Gly Gly Ala Met Val Tyr Asp Lys Pro Pro Lys Phe Ala
        65           70           75           80
Met Ser Arg Glu Gln Met Ser Gln Ser Cys Ser His Thr Ala His Asn
          85           90           95
Ala Ser Leu Leu Thr Asp Ala Gly Pro Leu Ser Cys Gly Glu Ser Arg
          100          105          110
Ala Ser Cys Leu Phe Leu
        115          118

```

&lt;210&gt; 939

&lt;211&gt; 143

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 939

```

Asp Ser Lys Glu Pro Arg Leu Gln Gln Leu Gly Leu Leu Glu Glu Glu
 1           5           10           15
Gln Leu Arg Gly Leu Gly Phe Arg Gln Thr Arg Gly Tyr Lys Ser Leu
          20           25           30
Ala Gly Cys Leu Gly His Gly Pro Leu Val Leu Gln Leu Leu Ser Phe
        35           40           45
Thr Leu Leu Ala Gly Leu Leu Val Gln Val Ser Lys Val Pro Ser Ser
        50           55           60
Ile Ser Gln Glu Gln Ser Arg Gln Asp Ala Ile Tyr Gln Asn Leu Thr
        65           70           75           80
Gln Leu Lys Ala Ala Val Gly Glu Leu Ser Glu Lys Ser Lys Leu Gln
          85           90           95
Glu Ile Tyr Gln Glu Leu Thr Gln Leu Lys Ala Ala Val Gly Glu Leu
          100          105          110
Pro Glu Lys Ser Lys Leu Gln Glu Ile Tyr Gln Glu Leu Thr Trp Leu
          115          120          125
Lys Ala Ala Val Gly Glu Leu Pro Glu Lys Ser Lys Met Gln Glu
          130          135          140          143

```

&lt;210&gt; 940

&lt;211&gt; 63

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 940

```

Met Gln Ser Ile Ala Trp Gly His Arg Arg Asp Arg Gly Glu Ser Pro
 1           5           10           15
Leu Gly Trp Gly Gln Glu Ser Glu Ala Ser Pro Ser Ala Leu Thr Glu
          20           25           30
Ala Pro Lys Ala Ala His Thr Thr Arg Leu Gly Phe Leu Ala Ala Asn

```

	35					40						45			
Asn	Pro	Asn	Gly	His	Ser	Gln	Pro	Gln	Asp	Ser	Phe	Leu	Leu	*	
	50					55					60		62		

```
<210> 941
<211> 238
<212> Amino acid
<213> Homo sapiens
```

<400> 941															
Phe 1	Glu	Thr	Leu	Ser 5	Met	Arg	Gly	Ile	Pro 10	His	Met	Leu	Ala	Leu 15	Gly
Pro	Gln	Gln	Leu 20	Leu	Ala	Gln	Asp 25	Glu	Glu	Gly	Asp	Thr	Leu 30	Leu	His
Leu	Phe	Ala	Ala 35	Arg	Gly	Leu	Arg 40	Trp	Ala	Ala	Tyr	Ala 45	Ala	Ala	Glu
Val 50	Leu	Gln	Val	Tyr	Arg	Arg	Leu 55	Asp	Ile	Arg	Glu 60	His	Lys	Gly	Lys
Thr 65	Pro	Leu	Leu	Val	Ala 70	Ala	Ala	Ala	Asn	Gln 75	Pro	Leu	Ile	Val 80	Glu
Asp	Leu	Leu	Asn 85	Leu	Gly	Ala	Glu	Pro	Asn 90	Ala	Ala	Asp	His	Gln 95	Gly
Arg	Ser	Val	Leu 100	His	Val	Ala	Ala 105	Thr	Tyr	Gly	Leu	Pro 110	Gly	Val	Leu
Leu	Ala	Val	Leu 115	Asn	Ser	Gly	Val 120	Gln	Val	Asp	Leu	Glu 125	Ala	Arg	Asp
Phe 130	Glu	Gly	Leu	Thr	Pro	Leu	His 135	Thr	Ala	Ile	Leu 140	Ala	Leu	Asn	Val
Ala 145	Met	Arg	Pro	Ser	Asp 150	Leu	Cys	Pro	Arg	Val 155	Leu	Ser	Thr	Gln	Ala
Arg	Asp	Arg	Leu 165	Asp	Cys	Val	His 170	Met	Leu	Leu	Gln 175	Met	Gly	Ala	Asn
His	Thr	Ile	Gln 180	Val	Ser	Gly	Asp 185	Val	Gly	Gly	Gln 190	Thr	Leu	Gly	Asp
Cys	Val	Glu	Trp 195	Gly	His	Leu	Asp 200	Val	Arg	Glu	Leu 205	Gln	Ala	Asn	Ala
Asp	Phe	Ala	Ser 210	Ser	Leu	Leu	Arg 215	Ala	Leu	Glu	His 220	Val	Thr	Ser	Leu
Leu 225	Cys	Ala	Leu	Arg	Val 230	Phe	Cys	Leu	Phe	Leu 235	Cys	Gln	Leu		

```
<210> 942
<211> 158
<212> Amino acid
<213> Homo sapiens
```

<400> 942															
Asp	Ala	Trp	Ala	Asp	Ala	Trp	Val	Gly	Thr	Lys	Met	Ala	Asp	Leu	Asp
1				5					10					15	
Ser	Pro	Pro	Lys	Leu	Ser	Gly	Val	Gln	Gln	Pro	Ser	Glu	Gly	Val	Gly
			20					25						30	
Gly	Gly	Arg	Cys	Ser	Glu	Ile	Ser	Ala	Glu	Leu	Ile	Arg	Ser	Leu	Thr
		35					40					45			
Glu	Leu	Gln	Glu	Leu	Glu	Ala	Val	Tyr	Glu	Arg	Leu	Cys	Gly	Glu	Glu

50						55						60					
Lys	Val	Val	Glu	Arg	Glu	Leu	Asp	Ala	Leu	Leu	Glu	Gln	Gln	Asn	Thr		
65						70					75				80		
Ile	Glu	Ser	Lys	Met	Val	Thr	Leu	His	Arg	Met	Gly	Pro	Asn	Leu	Gln		
				85					90					95			
Leu	Ile	Glu	Gly	Asp	Ala	Lys	Gln	Leu	Ala	Gly	Met	Ile	Thr	Phe	Thr		
			100					105					110				
Cys	Asn	Leu	Ala	Glu	Asn	Val	Ser	Ser	Lys	Val	Arg	Gln	Leu	Asp	Leu		
	115						120					125					
Ala	Lys	Asn	Arg	Leu	Tyr	Gln	Ala	Ile	Gln	Arg	Ala	Asp	Asp	Ile	Leu		
	130					135					140						
Asp	Leu	Lys	Phe	Cys	Met	Asp	Gly	Val	Gln	Thr	Ala	Leu	Arg				
145					150				155			158					

<210> 943  
 <211> 235  
 <212> Amino acid  
 <213> Homo sapiens

<400> 943																	
Ala	Val	Glu	Phe	Arg	Val	Pro	Arg	Ser	Gly	Ser	Ala	Tyr	Leu	Tyr	Ser		
1				5					10					15			
Tyr	Val	Thr	Val	Gly	Glu	Leu	Trp	Ala	Phe	Thr	Thr	Gly	Trp	Asn	Leu		
			20					25					30				
Ile	Leu	Ser	Tyr	Val	Ile	Gly	Thr	Ala	Ser	Val	Ala	Arg	Ala	Trp	Ser		
	35					40					45						
Ser	Ala	Phe	Asp	Asn	Leu	Ile	Gly	Asn	His	Ile	Ser	Lys	Thr	Leu	Gln		
	50					55					60						
Gly	Ser	Ile	Ala	Leu	His	Val	Pro	His	Val	Leu	Ala	Glu	Tyr	Pro	Asp		
	65				70					75				80			
Phe	Phe	Ala	Leu	Gly	Leu	Val	Leu	Leu	Leu	Thr	Gly	Leu	Leu	Ala	Leu		
			85					90						95			
Gly	Ala	Ser	Glu	Ser	Ala	Leu	Val	Thr	Lys	Val	Phe	Thr	Gly	Val	Asn		
		100						105					110				
Leu	Leu	Val	Leu	Gly	Phe	Val	Met	Ile	Ser	Gly	Phe	Val	Lys	Gly	Asp		
	115						120					125					
Val	His	Asn	Trp	Lys	Leu	Thr	Glu	Glu	Asp	Tyr	Glu	Leu	Ala	Met	Ala		
	130					135					140						
Glu	Leu	Asn	Asp	Thr	Tyr	Ser	Leu	Gly	Pro	Leu	Gly	Ser	Gly	Gly	Phe		
145				150					155					160			
Val	Pro	Phe	Gly	Phe	Glu	Gly	Ile	Leu	Arg	Gly	Ala	Ala	Thr	Cys	Phe		
			165					170						175			
Tyr	Ala	Phe	Val	Gly	Phe	Asp	Cys	Ile	Ala	Thr	Thr	Gly	Glu	Glu	Ala		
		180					185						190				
Gln	Asn	Pro	Gln	Arg	Ser	Ile	Pro	Met	Gly	Ile	Gly	Ile	Ser	Leu	Ser		
	195						200					205					
Val	Cys	Phe	Leu	Ala	Asp	Phe	Ala	Val	Ser	Ser	Ala	Leu	Thr	Leu	Met		
	210					215					220						
Met	Pro	Tyr	Tyr	Gln	Leu	Gln	Pro	Glu	Ser	Pro							
225					230					235							

<210> 944  
 <211> 284  
 <212> Amino acid  
 <213> Homo sapiens



<400> 944

Gly	Phe	His	Pro	Asn	Thr	Thr	His	Tyr	Arg	Ala	Arg	Ala	Ala	Ala	Arg
1				5					10					15	
Ala	Gly	Ala	Gly	Ser	Phe	Val	Gly	Glu	Val	Ser	Ala	Val	Asp	Lys	Asp
			20					25					30		
Phe	Gly	Pro	Asn	Gly	Glu	Val	Arg	Tyr	Ser	Phe	Glu	Met	Val	Gln	Pro
		35					40					45			
Asp	Phe	Glu	Leu	His	Ala	Ile	Ser	Gly	Glu	Ile	Thr	Asn	Thr	His	Gln
	50					55					60				
Phe	Asp	Arg	Glu	Ser	Leu	Met	Arg	Arg	Arg	Gly	Thr	Ala	Val	Phe	Ser
	65				70					75				80	
Phe	Thr	Val	Ile	Ala	Thr	Asp	Gln	Gly	Ile	Pro	Gln	Pro	Leu	Lys	Asp
			85						90					95	
Gln	Ala	Thr	Val	His	Val	Tyr	Met	Lys	Asp	Ile	Asn	Asp	Asn	Ala	Pro
			100					105					110		
Lys	Phe	Leu	Lys	Asp	Phe	Tyr	Gln	Ala	Thr	Ile	Ser	Glu	Ser	Ala	Ala
		115					120					125			
Asn	Leu	Thr	Gln	Val	Leu	Arg	Val	Ser	Ala	Ser	Asp	Val	Asp	Glu	Gly
	130					135					140				
Asn	Asn	Gly	Leu	Ile	His	Tyr	Ser	Ile	Ile	Lys	Gly	Asn	Glu	Glu	Arg
	145				150					155					160
Gln	Phe	Ala	Ile	Asp	Ser	Thr	Ser	Gly	Gln	Val	Thr	Leu	Ile	Gly	Lys
			165						170					175	
Leu	Asp	Tyr	Glu	Ala	Thr	Pro	Ala	Tyr	Ser	Leu	Val	Ile	Gln	Ala	Val
			180					185					190		
Asp	Ser	Gly	Thr	Ile	Pro	Leu	Asn	Ser	Thr	Cys	Thr	Leu	Asn	Ile	Asp
	195						200					205			
Ile	Leu	Asp	Glu	Asn	Asp	Asn	Thr	Pro	Phe	Phe	Leu	Leu	Asn	Gln	His
	210					215					220				
Phe	Phe	Val	Asp	Val	Leu	Glu	Asn	Met	Arg	Ile	Gly	Glu	Leu	Gly	Ala
	225				230					235					240
Ser	Gly	Thr	Ala	Thr	Asp	Ser	Asp	Ser	Gly	Asp	Ile	Ala	Asp	Leu	Tyr
			245						250					255	
Tyr	Lys	Phe	Thr	Gly	Thr	Lys	His	Pro	Pro	Gly	Thr	Phe	Ser	Ile	Ser
			260					265					270		
Pro	Lys	His	Leu	Gly	Val	Phe	Phe	Leu	Ala	Gln	Lys				
		275					280				284				

<210> 945  
 <211> 119  
 <212> Amino acid  
 <213> Homo sapiens

<400> 945

Gly	Asp	Cys	Tyr	Asp	Leu	Tyr	Gly	Gly	Glu	Lys	Phe	Ala	Thr	Leu	Ala
1				5					10					15	
Glu	Leu	Val	Gln	Tyr	Tyr	Met	Glu	His	His	Gly	Gln	Leu	Lys	Glu	Lys
			20					25					30		
Asn	Gly	Asp	Val	Ile	Glu	Leu	Lys	Asn	Pro	Leu	Asn	Cys	Ala	Asp	Pro
	35						40					45			
Thr	Ser	Gln	Arg	Trp	Phe	His	Gly	His	Leu	Ser	Gly	Lys	Glu	Ala	Glu
	50					55					60				
Lys	Leu	Leu	Thr	Glu	Lys	Gly	Lys	His	Ser	Ser	Phe	Leu	Val	Arg	Glu
	65				70				75					80	
Ser	Gln	Ser	His	Pro	Gly	Asp	Phe	Val	Leu	Ser	Val	Cys	Thr	Gly	Asp
			85						90					95	
Asp	Lys	Gly	Glu	Ser	Asn	Asp	Gly	Lys	Ser	Lys	Val	Thr	His	Val	Met

100 105 110  
 Ile His Cys Gln Glu Leu Lys  
 115 119

<210> 946  
 <211> 166  
 <212>Amino acid  
 <213> Homo sapiens

<400> 946  
 Ile Asp Ser Gly Asn Gln Asn Gly Gly Asn Asp Asp Lys Thr Lys Asn  
 1 5 10 15  
 Ala Glu Arg Asn Tyr Leu Asn Val Leu Pro Gly Glu Phe Tyr Ile Thr  
 20 25 30  
 Arg His Ser Asn Leu Ser Glu Ile His Val Ala Phe His Leu Cys Val  
 35 40 45  
 Asp Asp His Val Lys Ser Gly Asn Ile Thr Ala Arg Asp Pro Ala Ile  
 50 55 60  
 Met Gly Leu Arg Asn Ile Leu Lys Val Cys Cys Thr His Asp Ile Thr  
 65 70 75 80  
 Thr Ile Ser Ile Pro Leu Leu Leu Val His Asp Met Ser Glu Glu Met  
 85 90 95  
 Thr Ile Pro Trp Cys Leu Arg Arg Ala Glu Leu Val Phe Lys Cys Val  
 100 105 110  
 Lys Gly Phe Met Met Glu Met Ala Ser Trp Asp Gly Gly Ile Ser Arg  
 115 120 125  
 Thr Val Gln Phe Leu Val Pro Gln Ser Ile Ser Glu Glu Met Phe Tyr  
 130 135 140  
 Gln Leu Ser Asn Met Leu Pro Gln Ile Phe Arg Val Ser Ser Thr Leu  
 145 150 155 160  
 Thr Leu Thr Ser Lys His  
 165 166

<210> 947  
 <211> 121  
 <212>Amino acid  
 <213> Homo sapiens

<400> 947  
 Ser Ile Leu Pro Ala Leu Leu Val Thr Ile Leu Ile Phe Met Asp Gln  
 1 5 10 15  
 Gln Ile Thr Ala Val Ile Val Asn Arg Lys Glu Asn Lys Leu Lys Lys  
 20 25 30  
 Ala Ala Gly Tyr His Leu Asp Leu Phe Trp Val Gly Ile Leu Met Ala  
 35 40 45  
 Leu Cys Ser Phe Met Gly Leu Pro Trp Tyr Val Ala Ala Thr Val Ile  
 50 55 60  
 Ser Ile Ala His Ile Asp Ser Leu Lys Met Glu Thr Glu Thr Ser Ala  
 65 70 75 80  
 Pro Gly Glu Gln Pro Gln Phe Leu Gly Val Arg Glu Gln Arg Val Thr  
 85 90 95  
 Gly Ile Ile Val Phe Ile Leu Thr Gly Ile Ser Val Phe Leu Ala Pro  
 100 105 110  
 Ile Leu Lys Cys Ile Pro Leu Pro Val

115

120 121

<210> 948  
 <211> 191  
 <212>Amino acid  
 <213> Homo sapiens

<400> 948  
 Gly Ala Ser Arg Val Glu Ala Gly Ser Ala Asn Gly Met Leu Ile Asp  
 1 5 10 15  
 Gly Gly Ser Gln Ile Val Lys Val Gln Gly His Ala Asp Gly Thr Thr  
 20 25 30  
 Ile Asn Lys Ser Gly Ser Gln Asp Val Val Gln Gly Ser Leu Ala Thr  
 35 40 45  
 Asn Thr Thr Ile Asn Gly Gly Arg Gln Tyr Val Glu Gln Ser Thr Val  
 50 55 60  
 Glu Thr Thr Thr Ile Lys Asn Gly Gly Glu Gln Arg Val Tyr Glu Ser  
 65 70 75 80  
 Arg Ala Leu Asp Thr Thr Ile Glu Gly Gly Thr Gln Ser Leu Asn Ser  
 85 90 95  
 Lys Ser Thr Ala Lys Asn Thr His Ile Tyr Ser Gly Gly Thr Gln Ile  
 100 105 110  
 Val Asp Asn Thr Ser Thr Ser Asp Val Ile Glu Val Tyr Ser Gly Gly  
 115 120 125  
 Val Leu Asp Val Arg Gly Gly Thr Ala Thr Asn Val Thr Gln His Asp  
 130 135 140  
 Gly Ala Ile Leu Lys Thr Asn Thr Asn Gly Thr Thr Val Ser Gly Thr  
 145 150 155 160  
 Asn Ser Glu Gly Ala Phe Ser Ile His Asn His Val Ala Asp Asn Val  
 165 170 175  
 Leu Leu Glu Asn Gly Gly His Leu Asp Ile Asn Ala Tyr Gly Ser  
 180 185 190 191

<210> 949  
 <211> 98  
 <212>Amino acid  
 <213> Homo sapiens

<400> 949  
 Phe Phe Ser Ser Ile Gln Leu Thr Asp Asp Gln Gly Pro Val Leu Met  
 1 5 10 15  
 Thr Thr Val Ala Met Pro Val Phe Ser Lys Gln Asn Glu Thr Arg Ser  
 20 25 30  
 Lys Gly Ile Leu Leu Gly Val Val Gly Thr Asp Val Pro Val Lys Glu  
 35 40 45  
 Leu Leu Lys Thr Ile Pro Lys Tyr Lys Val Met Asn Asp Leu Ile Pro  
 50 55 60  
 Glu Ile Lys Ala Thr Glu Met Pro Arg Ala Leu Phe Ser Gln Ser Ser  
 65 70 75 80  
 Gly Phe Lys Leu Tyr Phe Gly Ala Met Phe Leu Leu Thr Thr Ile Thr  
 85 90 95  
 Ala Cys  
 98

<210> 950  
 <211> 196  
 <212>Amino acid  
 <213> Homo sapiens

<400> 950  
 Ser Cys Ser Gly Thr Gly Thr Asn Ala Cys Tyr Met Glu Asp Met Ser  
 1 5 10 15  
 Asn Ile Asp Leu Val Glu Gly Asp Glu Gly Arg Met Cys Ile Asn Thr  
 20 25 30  
 Glu Trp Gly Ala Phe Gly Asp Asp Gly Ala Leu Glu Asp Ile Arg Thr  
 35 40 45  
 Glu Phe Asp Arg Glu Leu Asp Leu Gly Ser Leu Asn Pro Gly Lys Gln  
 50 55 60  
 Leu Phe Glu Lys Met Ile Ser Gly Leu Tyr Leu Gly Glu Leu Val Arg  
 65 70 75 80  
 Leu Ile Leu Leu Lys Met Ala Lys Ala Gly Leu Leu Phe Gly Gly Glu  
 85 90 95  
 Lys Ser Ser Ala Leu His Thr Lys Gly Lys Ile Glu Thr Arg His Val  
 100 105 110  
 Ala Ala Met Glu Lys Tyr Lys Glu Gly Leu Ala Asn Thr Arg Glu Ile  
 115 120 125  
 Leu Val Asp Leu Gly Leu Glu Pro Ser Glu Ala Asp Cys Ile Ala Val  
 130 135 140  
 Gln His Val Cys Thr Ile Val Ser Phe Arg Ser Ala Asn Leu Cys Ala  
 145 150 155 160  
 Ala Ala Leu Ala Ala Ile Leu Thr Arg Leu Arg Glu Asn Lys Lys Val  
 165 170 175  
 Glu Arg Leu Arg Thr Thr Val Gly Met Asp Gly Thr Leu Tyr Lys Ile  
 180 185 190  
 His Pro Gln Tyr  
 195 196

<210> 951  
 <211> 721  
 <212>Amino acid  
 <213> Homo sapiens

<400> 951  
 Phe Val Ala Ile Ala Thr Asn Gly Val Val Pro Ala Gly Gly Ser Tyr  
 1 5 10 15  
 Tyr Met Ile Ser Arg Ser Leu Gly Pro Glu Phe Gly Gly Ala Val Gly  
 20 25 30  
 Leu Cys Phe Tyr Leu Gly Thr Thr Phe Ala Gly Ala Met Tyr Ile Leu  
 35 40 45  
 Gly Thr Ile Glu Ile Leu Leu Ala Tyr Leu Phe Pro Ala Met Ala Ile  
 50 55 60  
 Phe Lys Ala Glu Asp Ala Ser Gly Glu Ala Ala Ala Met Leu Asn Asn  
 65 70 75 80  
 Met Arg Val Tyr Gly Thr Cys Val Leu Thr Cys Met Ala Thr Val Val  
 85 90 95  
 Phe Val Gly Val Lys Tyr Val Asn Lys Phe Ala Leu Val Phe Leu Gly  
 100 105 110  
 Cys Val Ile Leu Ser Ile Leu Ala Ile Tyr Ala Gly Val Ile Lys Ser

115	120	125
Ala Phe Asp Pro Pro Asn Phe Pro Ile Cys Leu Leu Gly Asn Arg Thr		
130	135	140
Leu Ser Arg His Gly Phe Asp Val Cys Ala Lys Leu Ala Trp Glu Gly		
145	150	155
Asn Glu Thr Val Thr Arg Leu Trp Gly Leu Phe Cys Ser Ser Arg		
165	170	175
Phe Leu Asn Ala Thr Cys Asp Glu Tyr Phe Thr Arg Asn Asn Val Thr		
180	185	190
Glu Ile Gln Gly Ile Pro Gly Ala Ala Ser Gly Leu Ile Lys Glu Asn		
195	200	205
Leu Trp Ser Ser Tyr Leu Thr Lys Gly Val Ile Val Glu Arg Ser Gly		
210	215	220
Met Thr Ser Val Gly Leu Ala Asp Gly Thr Pro Ile Asp Met Asp His		
225	230	235
Pro Tyr Val Phe Ser Asp Met Thr Ser Tyr Phe Thr Leu Leu Val Gly		
245	250	255
Ile Tyr Phe Pro Ser Val Thr Gly Ile Met Ala Gly Ser Asn Arg Ser		
260	265	270
Gly Asp Leu Arg Asp Ala Gln Lys Ser Ile Pro Thr Gly Thr Ile Leu		
275	280	285
Ala Ile Ala Thr Thr Ser Ala Val Tyr Ile Ser Ser Val Val Leu Phe		
290	295	300
Gly Ala Cys Ile Glu Gly Val Val Leu Arg Asp Lys Phe Gly Glu Ala		
305	310	315
Val Asn Gly Asn Leu Val Val Gly Thr Leu Ala Trp Pro Ser Pro Trp		
325	330	335
Val Ile Val Ile Gly Ser Phe Phe Ser Thr Cys Gly Ala Gly Leu Gln		
340	345	350
Ser Leu Thr Gly Ala Pro Arg Leu Leu Gln Ala Ile Ser Arg Asp Gly		
355	360	365
Ile Val Pro Phe Leu Gln Val Phe Gly His Gly Lys Ala Asn Gly Glu		
370	375	380
Pro Thr Trp Ala Leu Leu Leu Thr Ala Cys Ile Cys Glu Ile Gly Ile		
385	390	395
Leu Ile Ala Ser Leu Asp Glu Val Ala Pro Ile Leu Ser Met Phe Phe		
405	410	415
Leu Met Cys Tyr Met Phe Val Asn Leu Ala Cys Ala Val Gln Thr Leu		
420	425	430
Leu Arg Thr Pro Asn Trp Arg Pro Arg Phe Arg Tyr Tyr His Trp Thr		
435	440	445
Leu Ser Phe Leu Gly Met Ser Leu Cys Leu Ala Leu Met Phe Ile Cys		
450	455	460
Ser Trp Tyr Tyr Ala Leu Val Ala Met Leu Ile Ala Gly Leu Ile Tyr		
465	470	475
Lys Tyr Ile Glu Tyr Arg Gly Ala Lys Lys Glu Trp Gly Asp Gly Ile		
485	490	495
Arg Gly Leu Ser Leu Ser Ala Ala Arg Tyr Ala Leu Leu Arg Leu Glu		
500	505	510
Glu Gly Pro Pro His Thr Lys Asn Trp Arg Pro Gln Leu Leu Val Leu		
515	520	525
Val Arg Val Asp Gln Asp Gln Asn Val Val His Pro Gln Leu Leu Ser		
530	535	540
Leu Thr Ser Gln Leu Lys Ala Gly Lys Gly Leu Thr Ile Val Gly Ser		
545	550	555
Val Leu Glu Gly Thr Phe Leu Glu Asn His Pro Gln Ala Gln Arg Ala		
565	570	575
Glu Glu Ser Ile Arg Arg Leu Met Glu Ala Glu Lys Val Lys Gly Phe		
580	585	590
Cys Gln Val Val Ile Ser Ser Asn Leu Arg Asp Gly Val Ser His Leu		
595	600	605
Ile Gln Ser Gly Gly Leu Gly Gly Leu Gln His Asn Thr Val Leu Val		
610	615	620
Gly Trp Pro Arg Asn Trp Arg Gln Lys Glu Asp His Gln Thr Trp Arg		

```

625          630          635          640
Asn Phe Ile Glu Leu Val Arg Glu Thr Thr Ala Gly His Leu Ala Leu
          645          650          655
Leu Val Thr Lys Asn Val Ser Met Phe Pro Gly Asn Pro Glu Arg Phe
          660          665          670
Ser Glu Gly Ser Ile Asp Arg Trp Gly Ile Gly His Asp Gly Gly Met
          675          680          685
Leu Met Leu Val Pro Phe Leu Leu Arg His His Lys Val Trp Arg Lys
          690          695          700
Cys Lys Met Arg Ile Phe Thr Val Ala Gln Met Val Asp Met His Ala
705          710          715          720
Met
721

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<210> 952
<211> 42
<212>Amino acid
<213> Homo sapiens

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```

<400> 952
Phe Tyr Leu Arg Leu Leu Ser Phe Phe Cys Phe Gln Glu His Glu Lys
 1          5          10          15
Arg Cys Trp Ser Val Asp Phe Asn Leu Met Asp Pro Lys Leu Leu Ala
          20          25          30
Ser Gly Ser Asp Asp Ala Lys Gly Thr Val
          35          40          42

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<210> 953
<211> 80
<212>Amino acid
<213> Homo sapiens

```

```

<400> 953
Arg Asn Ser Lys Ala Met His Arg Ser Ser Cys Asp Gly Pro Leu Leu
 1          5          10          15
Ser Leu Pro Ser Val Gly Arg Ser Ala Thr His Ala Leu Val Gln Ala
          20          25          30
Gln Leu Ile Cys Ser Gly Ala Arg Arg Gly Met His Ala Phe Ile Val
          35          40          45
Pro Ile Arg Ser Leu Gln Asp His Thr Pro Leu Pro Gly Lys Pro Ile
          50          55          60
Met Leu Pro Gln Gly Thr Leu Pro Gly Gly Glu Pro Arg Trp Pro Pro
 65          70          75          80

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<210> 954
<211> 202
<212>Amino acid
<213> Homo sapiens

```

<400> 954  
 Cys Gly Thr Leu Ile Leu Gln Ala Arg Ala Tyr Val Gly Pro His Val  
 1 5 10 15  
 Leu Ala Val Val Thr Arg Thr Gly Phe Cys Thr Ala Lys Gly Gly Leu  
 20 25 30  
 Val Ser Ser Ile Leu His Pro Arg Pro Ile Asn Phe Lys Phe Tyr Lys  
 35 40 45  
 His Ser Met Lys Phe Val Ala Ala Leu Ser Val Leu Ala Leu Leu Gly  
 50 55 60  
 Thr Ile Tyr Ser Ile Phe Ile Leu Tyr Arg Asn Arg Val Pro Leu Asn  
 65 70 75 80  
 Glu Ile Val Ile Arg Ala Leu Asp Leu Val Thr Val Val Val Pro Pro  
 85 90 95  
 Ala Leu Pro Ala Ala Met Thr Val Cys Thr Leu Tyr Ala Gln Ser Arg  
 100 105 110  
 Leu Arg Arg Gln Gly Ile Phe Cys Ile His Pro Leu Arg Ile Asn Leu  
 115 120 125  
 Gly Gly Lys Leu Gln Leu Val Cys Phe Asp Lys Thr Gly Thr Leu Thr  
 130 135 140  
 Glu Asp Gly Leu Asp Val Met Gly Val Val Pro Leu Lys Gly Gln Ala  
 145 150 155 160  
 Phe Leu Pro Leu Val Pro Glu Pro Arg Arg Leu Pro Val Gly Pro Leu  
 165 170 175  
 Leu Arg Ala Leu Ala Thr Cys His Ala Leu Ser Arg Leu Gln Asp Thr  
 180 185 190  
 Pro Val Gly Asp Pro Met Asp Leu Lys Met  
 195 200 202

<210> 955  
 <211> 188  
 <212> Amino acid  
 <213> Homo sapiens

<400> 955  
 Gln Ile Glu Tyr Phe Arg Ser Leu Leu Asp Glu His His Ile Ser Tyr  
 1 5 10 15  
 Val Ile Asp Glu Asp Val Lys Ser Gly Arg Tyr Met Glu Leu Glu Gln  
 20 25 30  
 Arg Tyr Met Asp Leu Ala Glu Asn Ala Arg Phe Glu Arg Glu Gln Leu  
 35 40 45  
 Leu Gly Val Gln Gln His Leu Ser Asn Thr Leu Lys Met Ala Glu Gln  
 50 55 60  
 Asp Asn Lys Glu Ala Gln Glu Met Ile Gly Ala Leu Lys Glu Arg Ser  
 65 70 75 80  
 His His Met Glu Arg Ile Ile Glu Ser Glu Gln Lys Gly Lys Ala Ala  
 85 90 95  
 Leu Ala Ala Thr Leu Glu Glu Tyr Lys Ala Thr Val Ala Ser Asp Gln  
 100 105 110  
 Ile Glu Met Asn Arg Leu Lys Ala Gln Leu Glu Asn Glu Lys Gln Lys  
 115 120 125  
 Val Ala Glu Leu Tyr Ser Ile His Asn Ser Gly Asp Lys Ser Asp Ile  
 130 135 140  
 Gln Asp Leu Leu Glu Ser Val Arg Leu Asp Lys Glu Lys Ala Glu Thr  
 145 150 155 160  
 Leu Ala Ser Ser Leu Gln Glu Asp Leu Ala His Thr Arg Asn Asp Ala  
 165 170 175  
 Asn Arg Leu Gln Asp Ala Ile Ala Lys Gly Arg Gly

180

185

188

<210> 956  
 <211> 132  
 <212> Amino acid  
 <213> Homo sapiens

<400> 956  
 Ala Arg Tyr Arg Phe Thr Leu Ser Ala Arg Thr Gln Val Gly Ser Gly  
 1 5 10 15  
 Glu Ala Val Thr Glu Glu Ser Pro Ala Pro Pro Asn Glu Ala Thr Pro  
 20 25 30  
 Thr Ala Ala Pro Pro Thr Leu Pro Pro Thr Thr Val Gly Ala Thr Gly  
 35 40 45  
 Ala Val Ser Ser Thr Asp Ala Thr Ala Ile Ala Ala Thr Thr Glu Ala  
 50 55 60  
 Thr Thr Val Pro Ile Ile Pro Thr Val Ala Pro Thr Thr Met Ala Thr  
 65 70 75 80  
 Thr Thr Thr Val Ala Thr Thr Thr Thr Thr Thr Ala Ala Ala Thr Thr  
 85 90 95  
 Thr Thr Glu Ser Pro Pro Thr Thr Thr Ser Gly Thr Lys Ile His Glu  
 100 105 110  
 Ser Ala Pro Asp Glu Gln Ser Ile Trp Asn Val Thr Val Leu Pro Asn  
 115 120 125  
 Ser Lys Trp Ala  
 130 132

<210> 957  
 <211> 220  
 <212> Amino acid  
 <213> Homo sapiens

<400> 957  
 Leu Lys Ser Thr Gln Asp Glu Ile Asn Gln Ala Arg Ser Lys Leu Ser  
 1 5 10 15  
 Gln Leu His Glu Ser Arg Gln Glu Ala His Arg Ser Leu Glu Gln Tyr  
 20 25 30  
 Asp Gln Val Leu Asp Gly Ala His Gly Ala Ser Leu Thr Asp Leu Ala  
 35 40 45  
 Asn Leu Ser Glu Gly Val Ser Leu Ala Glu Arg Gly Ser Phe Gly Ala  
 50 55 60  
 Met Asp Asp Pro Phe Lys Asn Lys Ala Leu Leu Phe Ser Asn Asn Thr  
 65 70 75 80  
 Gln Glu Leu His Pro Asp Pro Phe Gln Thr Glu Asp Pro Phe Lys Ser  
 85 90 95  
 Asp Pro Phe Lys Gly Ala Asp Pro Phe Lys Gly Asp Pro Phe Gln Asn  
 100 105 110  
 Asp Pro Phe Ala Glu Gln Gln Thr Thr Ser Thr Asp Pro Phe Gly Gly  
 115 120 125  
 Asp Pro Phe Lys Glu Ser Asp Pro Phe Arg Gly Ser Ala Thr Asp Asp  
 130 135 140  
 Phe Phe Lys Lys Gln Thr Lys Asn Asp Pro Phe Thr Ser Asp Pro Phe  
 145 150 155 160  
 Thr Lys Asn Pro Ser Leu Pro Ser Lys Leu Asp Pro Phe Glu Ser Ser



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                165                170                175
Asp Pro Phe Ser Ser Ser Ser Val Ser Ser Lys Gly Ser Asp Pro Phe
                180                185                190
Gly Thr Leu Asp Pro Phe Gly Ser Gly Ser Phe Asn Ser Ala Glu Gly
                195                200                205
Phe Ala Asp Phe Ser Thr Ile Glu Gly Arg Arg Gly
                210                215                220

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<210> 958  
 <211> 250  
 <212>Amino acid  
 <213> Homo sapiens

```

    <400> 958
Arg Thr Arg Gly Gly Ser Gly Asn Ser Ser Gln Pro Ser Leu Arg Glu
  1                5                10                15
Gly His Asp Lys Pro Val Phe Asn Gly Ala Gly Lys Pro His Ser Ser
  20                25                30
Thr Ser Ser Pro Ser Val Pro Lys Thr Ser Ala Ser Arg Thr Gln Lys
  35                40                45
Ser Ala Val Glu His Lys Ala Lys Lys Ser Leu Ser His Pro Ser His
  50                55                60
Ser Arg Pro Gly Pro Met Val Thr Pro His Asn Lys Ala Lys Ser Pro
  65                70                75                80
Gly Val Arg Gln Pro Gly Ser Ser Ser Ser Ser Ala Pro Gly Gln Pro
  85                90                95
Ser Thr Gly Val Ala Arg Pro Thr Val Ser Ser Gly Pro Val Pro Arg
  100               105               110
Arg Gln Asn Gly Ser Ser Ser Ser Gly Pro Glu Arg Ser Ile Ser Gly
  115               120               125
Ser Lys Lys Pro Thr Asn Asp Ser Asn Pro Ser Arg Arg Thr Val Ser
  130               135               140
Gly Thr Cys Gly Pro Gly Gln Pro Ala Ser Ser Ser Gly Gly Pro Gly
  145               150               155               160
Arg Pro Ile Ser Gly Ser Val Ser Ser Ala Arg Pro Leu Gly Ser Ser
  165               170               175
Arg Gly Pro Gly Arg Pro Val Ser Ser Pro His Glu Leu Arg Arg Pro
  180               185               190
Val Ser Gly Leu Gly Pro Pro Gly Arg Ser Val Ser Gly Pro Gly Arg
  195               200               205
Ser Ile Ser Gly Ser Ile Pro Ala Gly Arg Thr Val Ser Asn Ser Val
  210               215               220
Pro Gly Arg Pro Val Ser Ser Leu Gly Pro Gly Gln Thr Val Ser Ser
  225               230               235               240
Ser Gly Pro Thr Ile Lys Pro Lys Cys Thr
  245                250

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<210> 959  
 <211> 48  
 <212>Amino acid  
 <213> Homo sapiens

```

    <400> 959
Arg Gly Lys Gly Ile Thr Pro Arg Tyr His Leu Cys Ile Ser Asp Pro

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      1             5             10             15
His Asn Leu Lys Ile Cys Cys Arg Val Asn Gly Glu Val Val Gln Ser
      20             25             30
Ser Asn Thr Asn Gln Met Val Phe Lys Thr Glu Asp Leu Ile Ala Trp
      35             40             45             48

```

<210> 960  
 <211> 63  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 960
Val Val Ala Val Thr Arg Trp Leu Cys Glu Asn Gly Val Ser Tyr Leu
      1             5             10             15
Arg Lys Cys Val Cys Ser Ala Cys Arg His Gly Thr Arg Cys Ala Gly
      20             25             30
Glu Val Ala Ala Ala Asn Asn Ser His Cys Thr Val Gly Ile Ala
      35             40             45
Phe Asn Ala Lys Ile Gly Gly Met Gly Asn Gln Leu Thr Trp Met
      50             55             60             63

```

<210> 961  
 <211> 59  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 961
Gly Ala Pro Pro Pro Phe Val Pro Thr Leu Lys Ser Asp Asp Asp Thr
      1             5             10             15
Ser Asn Phe Asp Glu Pro Lys Lys Asn Ser Trp Val Ser Ser Ser Pro
      20             25             30
Cys Gln Leu Ser Pro Ser Gly Phe Ser Gly Glu Glu Leu Pro Phe Val
      35             40             45
Gly Phe Ser Tyr Ser Lys Ala Leu Gly Ile Leu
      50             55             59

```

<210> 962  
 <211> 140  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 962
Phe Val Glu Arg Leu Ala His Leu His Ala Ala Cys Ala Pro Arg Arg
      1             5             10             15
Lys Val Ala Leu Leu Leu Glu Val Cys Arg Asp Val Tyr Ala Gly Leu
      20             25             30
Ala Arg Gly Glu Asn Gln Asp Pro Leu Gly Ala Asp Ala Phe Leu Pro

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```

      35      40      45
Ala Leu Thr Glu Glu Leu Ile Trp Ser Pro Asp Ile Gly Asp Thr Gln
  50      55      60
Leu Asp Val Glu Phe Leu Met Glu Leu Leu Asp Pro Asp Glu Leu Arg
  65      70      75      80
Gly Glu Ala Gly Tyr Tyr Leu Thr Thr Trp Phe Gly Ala Leu His His
      85      90      95
Ile Ala His Tyr Gln Pro Glu Thr Asp Arg Ala Pro Arg Gly Leu Ser
      100      105      110
Ser Glu Ala Arg Ala Ser Leu His Gln Trp His Arg Arg Arg Thr Leu
      115      120      125
His Arg Lys Asp His Pro Arg Ala Gln Gln Leu Asp
      130      135      140

```

<210> 963  
 <211> 153  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 963
Phe Trp Met Asp Pro Tyr Asn Pro Leu Asn Phe Lys Ala Pro Phe Gln
  1      5      10      15
Thr Ser Gly Glu Asn Glu Lys Gly Cys Arg Asp Ser Lys Thr Pro Ser
      20      25      30
Glu Ser Ile Val Ala Ile Ser Glu Cys His Thr Leu Leu Ser Cys Lys
      35      40      45
Val Gln Leu Leu Gly Ser Gln Glu Ser Glu Cys Pro Asp Ser Val Gln
      50      55      60
Arg Asp Val Leu Ser Gly Gly Arg His Thr His Val Lys Arg Lys Lys
      65      70      75      80
Val Thr Phe Leu Glu Glu Val Thr Glu Tyr Tyr Ile Ser Gly Asp Glu
      85      90      95
Asp Arg Lys Gly Pro Trp Glu Glu Phe Ala Arg Asp Gly Cys Arg Phe
      100      105      110
Gln Lys Arg Ile Gln Glu Thr Glu Asp Ala Ile Gly Tyr Cys Leu Thr
      115      120      125
Phe Glu His Arg Glu Arg Met Phe Asn Arg Leu Gln Gly Thr Cys Phe
      130      135      140
Lys Gly Leu Asn Val Leu Lys Gln Cys
      145      150      153

```

<210> 964  
 <211> 54  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 964
Ala Ala Ser Thr Ala Tyr Ser Phe Phe Gly Thr Val Glu Asn Met Ala
  1      5      10      15
Pro Lys Val Val Asn Arg Pro Gly His Thr Gln Ser Ala Asp Trp Gly
      20      25      30
Ser Phe Gly Gly Leu Met Gly Arg Phe Glu Phe Gly Ile Phe Leu Lys
      35      40      45
Gly Lys Glu Ile Val Lys

```

50

54

<210> 965  
 <211> 39  
 <212>Amino acid  
 <213> Homo sapiens

<400> 965  
 Gly Phe Val Phe Leu Pro Gly Pro Met Ser Val Gly Leu Asp Phe Ser  
 1 5 10 15  
 Leu Pro Gly Met Glu His Val Tyr Gly Ile Pro Glu His Ala Asp Asn  
 20 25 30  
 Leu Arg Leu Lys Val Thr Glu  
 35 39

<210> 966  
 <211> 130  
 <212>Amino acid  
 <213> Homo sapiens

<400> 966  
 Gly Ser Glu Cys Gln Gly Thr Asp Leu Asp Thr Arg Asn Cys Thr Ser  
 1 5 10 15  
 Asp Leu Cys Val His Thr Ala Ser Gly Pro Glu Asp Val Ala Leu Tyr  
 20 25 30  
 Val Gly Leu Ile Ala Val Ala Val Cys Leu Val Leu Leu Leu Val  
 35 40 45  
 Leu Ile Leu Val Tyr Cys Arg Lys Lys Glu Gly Leu Asp Ser Asp Val  
 50 55 60  
 Ala Asp Ser Ser Ile Leu Thr Ser Gly Phe Gln Pro Val Ser Ile Lys  
 65 70 75 80  
 Pro Ser Lys Ala Asp Asn Pro His Leu Leu Thr Ile Gln Pro Asp Leu  
 85 90 95  
 Ser Thr Thr Thr Thr Thr Tyr Gln Gly Ser Leu Cys Pro Arg Gln Asp  
 100 105 110  
 Gly Pro Ser Pro Lys Phe Gln Leu Thr Asn Gly His Leu Leu Ser Pro  
 115 120 125  
 Leu Gly  
 130

<210> 967  
 <211> 259  
 <212>Amino acid  
 <213> Homo sapiens

<400> 967  
 Leu Ile Tyr Asn Glu Asp Met Ile Cys Trp Ile Glu Ser Arg Glu Ser  
 1 5 10 15  
 Ser Asn Gln Leu Lys Cys Ile Gln Ile Thr Lys Ala Gly Gly Leu Thr

```

      20      25      30
Asp Glu Trp Thr Ile Asn Ile Leu Gln Ser Phe His Asn Val Gln Gln
      35      40      45
Met Ala Ile Asp Trp Leu Thr Arg Asn Leu Tyr Phe Val Asp His Val
      50      55      60
Gly Asp Arg Ile Phe Val Cys Asn Ser Asn Gly Ser Val Cys Val Thr
      65      70      75      80
Leu Ile Asp Leu Glu Leu His Asn Pro Lys Ala Ile Ala Val Asp Pro
      85      90      95
Ile Ala Gly Lys Leu Phe Phe Thr Asp Tyr Gly Asn Val Ala Lys Val
      100      105      110
Glu Arg Cys Asp Met Asp Gly Met Asn Arg Thr Arg Ile Ile Asp Ser
      115      120      125
Lys Thr Glu Gln Pro Ala Ala Leu Ala Leu Asp Leu Val Asn Lys Leu
      130      135      140
Val Tyr Trp Val Asp Leu Tyr Leu Asp Tyr Val Gly Val Val Asp Tyr
      145      150      155      160
Gln Gly Lys Asn Arg His Ala Val Ile Gln Gly Arg Gln Val Arg His
      165      170      175
Leu Tyr Gly Ile Thr Val Phe Glu Asp Tyr Leu Tyr Ala Thr Asn Ser
      180      185      190
Asp Ser Tyr Asn Ile Val Arg Ile Ser Arg Phe Asn Gly Thr Asp Ile
      195      200      205
His Ser Leu Ile Lys Ile Glu Asn Ala Trp Gly Ile Arg Ile Tyr Gln
      210      215      220
Lys Arg Thr Gln Pro Thr Val Arg Ser His Ala Cys Glu Val Asp Pro
      225      230      235      240
Tyr Gly Met Pro Gly Gly Cys Ser His Ile Cys Leu Leu Ser Ser Ser
      245      250      255
Tyr Thr Lys
      259

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<210> 968
<211> 161
<212>Amino acid
<213> Homo sapiens

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<400> 968
Ser Ser Gly Asn Pro Gln Pro Gly Asp Ser Ser Gly Gly Gly Ala Gly
  1      5      10      15
Gly Gly Leu Pro Ser Pro Gly Glu Gln Glu Leu Ser Arg Arg Leu Gln
      20      25      30
Arg Leu Tyr Pro Ala Val Asn Gln Gln Glu Thr Pro Leu Pro Arg Ser
      35      40      45
Trp Ser Pro Lys Asp Lys Tyr Asn Tyr Ile Gly Leu Ser Gln Gly Asn
      50      55      60
Leu Arg Val His Tyr Lys Gly His Gly Lys Asn His Lys Asp Ala Ala
      65      70      75      80
Ser Val Arg Ala Thr His Pro Ile Pro Ala Ala Cys Gly Ile Tyr Tyr
      85      90      95
Phe Glu Val Lys Ile Val Ser Lys Gly Arg Asp Gly Tyr Met Gly Ile
      100      105      110
Gly Leu Ser Ala Gln Gly Val Asn Met Asn Arg Leu Pro Gly Trp Asp
      115      120      125
Lys His Ser Tyr Gly Tyr His Gly Asp Asp Gly His Ser Phe Cys Ser
      130      135      140
Ser Gly Thr Gly Gln Pro Tyr Gly Pro Thr Phe Thr Thr Gly Asp Val
      145      150      155      160
Ile

```

161

<210> 969  
 <211> 76  
 <212>Amino acid  
 <213> Homo sapiens

<400> 969  
 Phe Phe Phe Phe Lys Met Gly Ser Arg Ser Val Thr Gln Ala Gly Val  
 1 5 10 15  
 Gln Trp Cys Asp Val Ser Ser Leu Gln Ala Pro Pro Pro Arg Phe Thr  
 20 25 30  
 Leu Phe Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Cys Val Pro  
 35 40 45  
 Pro Cys Pro Ala Asn Phe Phe Val Phe Leu Val Glu Thr Gly Phe His  
 50 55 60  
 Arg Val Ser Gln Tyr Gly Leu Asp Leu Leu Thr Ser  
 65 70 75 76

<210> 970  
 <211> 267  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(267)  
 <223> X = any amino acid or stop code

<400> 970  
 Gln Leu Ser Leu Ala Arg Gly Lys Val Phe Leu Cys Ala Leu Ser Phe  
 1 5 10 15  
 Val Tyr Phe Ala Lys Ala Leu Ala Glu Gly Tyr Leu Lys Ser Thr Ile  
 20 25 30  
 Thr Gln Ile Glu Arg Arg Val Asp Ile Pro Ser Ser Leu Val Gly Val  
 35 40 45  
 Ile Asp Gly Ser Phe Glu Ile Gly Asn Leu Leu Val Ile Thr Phe Val  
 50 55 60  
 Ser Tyr Phe Gly Ala Lys Leu His Arg Pro Lys Ile Ile Gly Ala Gly  
 65 70 75 80  
 Cys Val Ile Met Gly Val Gly Thr Leu Leu Ile Ala Met Pro Gln Phe  
 85 90 95  
 Phe Met Glu Gln Tyr Lys Tyr Glu Arg Tyr Ser Pro Ser Ser Asn Ser  
 100 105 110  
 Thr Leu Ser Ile Ser Pro Cys Leu Leu Glu Ser Ser Ser Gln Leu Pro  
 115 120 125  
 Val Ser Val Met Glu Lys Ser Lys Ser Lys Ile Ser Asn Glu Cys Glu  
 130 135 140  
 Val Asp Thr Ser Ser Ser Met Trp Ile Tyr Val Phe Leu Gly Asn Leu  
 145 150 155 160  
 Leu Arg Gly Ile Gly Glu Thr Pro Ile Gln Pro Leu Gly Ile Ala Tyr  
 165 170 175  
 Leu Asp Asp Phe Ala Ser Glu Asp Asn Ala Ala Phe Tyr Ile Gly Cys  
 180 185 190

Val	Gln	Thr	Val	Ala	Ile	Ile	Gly	Pro	Ile	Phe	Gly	Phe	Leu	Leu	Gly
	195						200					205			
Ser	Leu	Cys	Ala	Lys	Leu	Tyr	Val	Asp	Ile	Gly	Phe	Val	Asn	Leu	Asp
	210					215					220				
His	Phe	Xaa	Val	Ser	Ala	Gln	Leu	Gly	Thr	Arg	Lys	Gly	Val	Leu	Val
225					230					235					240
Cys	Leu	Val	Phe	Cys	Leu	Leu	Cys	Gln	Ser	Ile	Gly	Arg	Arg	Leu	Ser
				245					250					255	
Glu	Glu	His	His	His	Ser	Asp	Arg	Glu	Lys	Gly					
			260					265		267					

<210> 971  
 <211> 282  
 <212>Amino acid  
 <213> Homo sapiens

<400> 971

Gln	Pro	Ala	Gly	Arg	Val	Glu	Ala	Phe	Cys	Lys	Phe	His	Met	Trp	Ala
1				5					10					15	
Glu	Gly	Met	Thr	Ser	Leu	Met	Lys	Ala	Ala	Leu	Asp	Leu	Thr	Tyr	Pro
		20						25					30		
Ile	Thr	Ser	Met	Phe	Ser	Gly	Ala	Gly	Phe	Asn	Ser	Ser	Ile	Phe	Ser
	35						40					45			
Val	Phe	Lys	Asp	Gln	Gln	Ile	Glu	Asp	Leu	Trp	Ile	Pro	Tyr	Phe	Ala
	50					55					60				
Ile	Thr	Thr	Asp	Ile	Thr	Ala	Ser	Ala	Met	Arg	Val	His	Thr	Asp	Gly
65					70					75				80	
Ser	Leu	Trp	Arg	Tyr	Val	Arg	Ala	Ser	Met	Ser	Leu	Ser	Gly	Tyr	Met
				85					90					95	
Pro	Pro	Leu	Cys	Asp	Pro	Lys	Asp	Gly	His	Leu	Leu	Met	Asp	Gly	Gly
			100					105					110		
Tyr	Ile	Asn	Asn	Leu	Pro	Ala	Asp	Val	Ala	Arg	Ser	Met	Gly	Ala	Lys
		115					120					125			
Val	Val	Ile	Ala	Ile	Asp	Val	Gly	Ser	Arg	Asp	Glu	Thr	Asp	Leu	Thr
	130					135					140				
Asn	Tyr	Gly	Asp	Ala	Leu	Ser	Gly	Trp	Trp	Leu	Leu	Trp	Lys	Arg	Trp
145					150					155					160
Asn	Pro	Leu	Ala	Thr	Lys	Val	Lys	Val	Leu	Asn	Met	Ala	Glu	Ile	Gln
				165					170					175	
Thr	Arg	Leu	Ala	Tyr	Val	Cys	Cys	Val	Arg	Gln	Leu	Glu	Val	Val	Lys
			180					185					190		
Ser	Ser	Asp	Tyr	Cys	Glu	Tyr	Leu	Arg	Pro	Pro	Ile	Asp	Ser	Tyr	Ser
		195					200					205			
Thr	Leu	Asp	Phe	Gly	Lys	Phe	Asn	Glu	Ile	Cys	Glu	Val	Gly	Tyr	Gln
	210					215					220				
His	Gly	Arg	Thr	Val	Phe	Asp	Ile	Trp	Gly	Arg	Ser	Gly	Val	Leu	Glu
225					230					235					240
Lys	Met	Leu	Arg	Asp	Gln	Gln	Gly	Pro	Ser	Lys	Lys	Pro	Ala	Ser	Ala
				245					250					255	
Val	Leu	Thr	Cys	Pro	Asn	Ala	Ser	Phe	Thr	Asp	Leu	Ala	Glu	Ile	Val
			260					265					270		
Ser	Arg	Ile	Glu	Pro	Ala	Lys	Pro	Ala	Met						
		275					280		282						

<210> 972  
 <211> 167  
 <212>Amino acid  
 <213> Homo sapiens

&lt;400&gt; 972

```

Leu Trp Val Ile Met Phe Val Ser Tyr Leu Ile Leu Thr Leu Leu His
 1           5           10           15
Val Gln Thr Ala Val Leu Ala Arg Pro Gly Gly Glu Ser Ile Gly Cys
          20           25           30
Asp Asp Tyr Leu Gly Ser Asp Lys Val Val Asp Lys Cys Gly Val Cys
          35           40           45
Gly Gly Asp Asn Thr Gly Cys Gln Val Val Ser Gly Val Phe Lys His
          50           55           60
Ala Leu Thr Ser Leu Gly Tyr His Arg Val Val Glu Ile Pro Glu Gly
          65           70           75           80
Ala Thr Lys Ile Asn Ile Thr Glu Met Tyr Lys Ser Asn Asn Tyr Leu
          85           90           95
Ala Leu Arg Ser Arg Ser Gly Arg Ser Ile Ile Asn Gly Asn Trp Ala
          100          105          110
Ile Asp Arg Pro Gly Lys Tyr Glu Gly Gly Gly Thr Met Phe Thr Tyr
          115          120          125
Lys Arg Pro Asn Glu Ile Ser Ser Thr Ala Gly Glu Ser Phe Leu Ala
          130          135          140
Glu Gly Pro Thr Asn Glu Ile Leu Asp Val Tyr Val Ser Leu Asp Val
          145          150          155          160
Ser Gly Leu Phe Phe Gly Phe
          165          167

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&lt;210&gt; 973

&lt;211&gt; 140

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 973

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Ile Ser Gly Gly Thr Arg Ser Ala Gly Pro Leu Arg Arg Asn Tyr Asn
 1           5           10           15
Phe Ile Ala Ala Val Val Glu Lys Val Ala Pro Ser Val Val His Val
          20           25           30
Gln Leu Trp Gly Arg Asn Gln Gln Trp Ile Glu Val Val Leu Gln Asn
          35           40           45
Gly Ala Arg Tyr Glu Ala Val Val Lys Asp Ile Asp Leu Lys Leu Asp
          50           55           60
Leu Ala Val Ile Lys Ile Glu Ser Asn Ala Glu Leu Pro Val Leu Met
          65           70           75           80
Leu Gly Arg Ser Ser Asp Leu Arg Ala Gly Glu Phe Val Val Ala Leu
          85           90           95
Gly Ser Pro Phe Ser Leu Gln Asn Thr Ala Thr Ala Gly Ile Val Ser
          100          105          110
Thr Lys Gln Arg Gly Gly Lys Glu Leu Gly Met Lys Asp Ser Asp Met
          115          120          125
Asp Tyr Val Gln Ile Asp Ala Thr Ile Asn Tyr Gly
          130          135          140

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&lt;210&gt; 974

&lt;211&gt; 286

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens



<400> 974

Pro	Arg	Val	Arg	Glu	Leu	Lys	Glu	Ile	Leu	Asp	Arg	Lys	Gly	His	Phe
1				5					10					15	
Ser	Glu	Asn	Glu	Thr	Arg	Trp	Ile	Ile	Gln	Ser	Leu	Ala	Ser	Ala	Ile
			20				25					30			
Ala	Tyr	Leu	His	Asn	Asn	Asp	Ile	Val	His	Arg	Asp	Leu	Lys	Leu	Glu
		35				40					45				
Asn	Ile	Met	Val	Lys	Ser	Ser	Leu	Ile	Asp	Asp	Asn	Asn	Glu	Ile	Asn
	50					55					60				
Leu	Asn	Ile	Lys	Val	Thr	Asp	Phe	Gly	Leu	Ala	Val	Lys	Lys	Gln	Ser
	65				70				75					80	
Arg	Ser	Glu	Ala	Met	Leu	Gln	Ala	Thr	Cys	Gly	Thr	Pro	Ile	Tyr	Met
				85				90						95	
Ala	Pro	Glu	Val	Ile	Ser	Ala	His	Asp	Tyr	Ser	Gln	Gln	Cys	Asp	Ile
			100					105					110		
Trp	Ser	Ile	Gly	Val	Val	Met	Tyr	Met	Leu	Leu	Arg	Gly	Glu	Pro	Pro
		115				120						125			
Phe	Leu	Ala	Ser	Ser	Glu	Glu	Lys	Leu	Phe	Glu	Leu	Ile	Arg	Lys	Gly
	130					135					140				
Glu	Leu	His	Phe	Glu	Asn	Ala	Val	Trp	Asn	Ser	Ile	Ser	Asp	Cys	Ala
	145				150					155				160	
Lys	Ser	Val	Leu	Lys	Gln	Leu	Met	Lys	Val	Asp	Pro	Ala	His	Arg	Ile
				165				170						175	
Thr	Ala	Lys	Glu	Leu	Leu	Asp	Asn	Gln	Trp	Leu	Thr	Gly	Asn	Lys	Leu
			180					185					190		
Ser	Ser	Val	Arg	Pro	Thr	Asn	Val	Leu	Glu	Met	Met	Lys	Glu	Trp	Lys
		195				200						205			
Asn	Asn	Pro	Glu	Ser	Val	Glu	Glu	Asn	Thr	Thr	Glu	Glu	Lys	Asn	Lys
	210					215					220				
Pro	Ser	Thr	Glu	Glu	Lys	Leu	Lys	Ser	Tyr	Gln	Pro	Trp	Gly	Asn	Val
	225				230					235				240	
Pro	Glu	Thr	Asn	Tyr	Thr	Ser	Asp	Glu	Glu	Glu	Glu	Lys	Gln	Val	Gly
			245					250						255	
Arg	Ile	Ile	Ala	Ala	Phe	Leu	Pro	Ser	Val	Lys	Tyr	Pro	His	His	Thr
			260					265					270		
Trp	Asn	Ile	Phe	Leu	Gln	Ile	Cys	Leu	Phe	Val	Val	Ser	Leu		
	275						280					285	286		

<210> 975  
 <211> 155  
 <212> Amino acid  
 <213> Homo sapiens

<400> 975

Leu	Ser	Ile	Ser	Val	Ser	Asp	Val	Ser	Leu	Ser	Asp	Glu	Gly	Gln	Tyr
1				5					10					15	
Thr	Cys	Ser	Leu	Phe	Thr	Met	Pro	Val	Lys	Thr	Ser	Lys	Ala	Tyr	Leu
			20					25					30		
Thr	Val	Leu	Gly	Val	Pro	Glu	Lys	Pro	Gln	Ile	Ser	Gly	Phe	Ser	Ser
		35					40					45			
Pro	Val	Met	Glu	Gly	Asp	Leu	Met	Gln	Leu	Thr	Cys	Lys	Thr	Ser	Gly
	50					55					60				
Ser	Lys	Pro	Ala	Ala	Asp	Ile	Arg	Trp	Phe	Lys	Asn	Asp	Lys	Glu	Ile
	65					70				75				80	

Lys	Asp	Val	Lys	Tyr	Leu	Lys	Glu	Glu	Asp	Ala	Asn	Arg	Lys	Thr	Phe
				85					90					95	
Thr	Val	Ser	Ser	Thr	Leu	Asp	Phe	Arg	Val	Asp	Arg	Ser	Asp	Asp	Gly
			100					105					110		
Val	Ala	Val	Ile	Cys	Arg	Val	Asp	His	Glu	Ser	Leu	Asn	Ala	Thr	Pro
			115				120					125			
Gln	Val	Ala	Met	Gln	Val	Leu	Glu	Met	His	Tyr	Thr	Pro	Ser	Val	Lys
	130					135					140				
Ile	Ile	Pro	Ser	Thr	Pro	Phe	Pro	Gln	Glu	Gly					
145					150					155					

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<210> 976
<211> 137
<212> Amino acid
<213> Homo sapiens
```

	<400> 976														
Tyr	Asn	Gln	Lys	Val	Asp	Leu	Phe	Ser	Leu	Gly	Ile	Ile	Phe	Phe	Glu
1				5					10					15	
Met	Ser	Tyr	His	Pro	Met	Val	Thr	Ala	Ser	Glu	Arg	Ile	Phe	Val	Leu
			20					25					30		
Asn	Gln	Leu	Arg	Asp	Pro	Thr	Ser	Pro	Lys	Phe	Pro	Glu	Asp	Phe	Asp
		35					40					45			
Asp	Gly	Glu	His	Ala	Lys	Gln	Lys	Ser	Val	Ile	Ser	Trp	Leu	Leu	Asn
	50					55					60				
His	Asp	Pro	Ala	Lys	Arg	Pro	Thr	Ala	Thr	Glu	Leu	Leu	Lys	Ser	Glu
65					70					75					80
Leu	Leu	Pro	Pro	Pro	Gln	Met	Glu	Glu	Ser	Glu	Leu	His	Glu	Val	Leu
				85					90					95	
His	His	Thr	Leu	Thr	Asn	Val	Asp	Gly	Lys	Ala	Tyr	Arg	Thr	Ile	Asp
			100					105					110		
Gly	Pro	Arg	Ser	Phe	Arg	Gln	Arg	Ile	Ser	Pro	Ala	Ile	Ala	Tyr	Thr
		115					120					125			
Tyr	Asp	Ser	Asp	Ile	Leu	Lys	Gly	Asn							
	130					135	137								

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<210> 977
<211> 246
<212> Amino acid
<213> Homo sapiens
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<400> 977															
Asp	Gln	Asp	Tyr	Lys	Tyr	Asp	Ser	Thr	Ser	Asp	Asp	Ser	Asn	Phe	Leu
1				5					10					15	
Asn	Pro	Pro	Arg	Gly	Trp	Asp	His	Thr	Ala	Pro	Gly	His	Arg	Thr	Phe
			20					25					30		
Glu	Thr	Lys	Asp	Gln	Pro	Glu	Tyr	Asp	Ser	Thr	Asp	Gly	Glu	Gly	Asp
		35					40					45			
Trp	Ser	Leu	Trp	Ser	Val	Cys	Ser	Val	Thr	Cys	Gly	Asn	Gly	Asn	Gln
	50					55					60				
Lys	Arg	Thr	Arg	Ser	Cys	Gly	Tyr	Ala	Cys	Thr	Ala	Thr	Glu	Ser	Arg
65					70					75				80	
Thr	Cys	Asp	Arg	Pro	Asn	Cys	Pro	Gly	Ile	Glu	Asp	Thr	Phe	Arg	Thr
				85					90					95	

Ala	Ala	Thr	Glu	Val	Ser	Leu	Leu	Ala	Gly	Ser	Glu	Glu	Phe	Asn	Ala		
			100					105					110				
Thr	Lys	Leu	Phe	Glu	Val	Asp	Thr	Asp	Ser	Cys	Glu	Arg	Trp	Met	Ser		
			115				120					125					
Cys	Lys	Ser	Glu	Phe	Leu	Lys	Lys	Tyr	Met	His	Lys	Val	Met	Asn	Asp		
			130			135					140						
Leu	Pro	Ser	Cys	Pro	Cys	Ser	Tyr	Pro	Thr	Glu	Val	Ala	Tyr	Ser	Thr		
145						150				155					160		
Ala	Asp	Ile	Phe	Asp	Arg	Ile	Lys	Arg	Lys	Asp	Phe	Arg	Trp	Lys	Asp		
				165				170						175			
Ala	Ser	Gly	Pro	Lys	Glu	Lys	Leu	Glu	Ile	Tyr	Lys	Pro	Thr	Ala	Arg		
			180				185						190				
Tyr	Cys	Ile	Arg	Ser	Met	Leu	Ser	Leu	Glu	Ser	Thr	Thr	Leu	Ala	Ala		
			195			200						205					
Gln	His	Cys	Cys	Tyr	Gly	Asp	Asn	Met	Gln	Leu	Ile	Thr	Arg	Gly	Lys		
			210			215						220					
Gly	Ala	Gly	Thr	Pro	Asn	Leu	Ile	Ser	Thr	Glu	Phe	Ser	Ala	Glu	Leu		
225					230					235					240		
His	Tyr	Lys	Val	Asp	Val												
				245	246												

<210> 978  
 <211> 203  
 <212>Amino acid  
 <213> Homo sapiens

<400> 978																	
Glu	Ser	Glu	Glu	Asn	Gly	Glu	Ser	Ala	Met	Asp	Ser	Thr	Val	Ala	Lys		
1				5				10					15				
Glu	Gly	Thr	Asn	Val	Pro	Leu	Val	Ala	Ala	Gly	Pro	Cys	Asp	Asp	Glu		
			20					25				30					
Gly	Ile	Val	Thr	Ser	Thr	Gly	Ala	Lys	Glu	Glu	Asp	Glu	Glu	Gly	Glu		
			35			40					45						
Asp	Val	Val	Thr	Ser	Thr	Gly	Arg	Gly	Asn	Glu	Ile	Gly	His	Ala	Ser		
			50			55				60							
Thr	Cys	Thr	Gly	Leu	Gly	Glu	Glu	Ser	Glu	Gly	Val	Leu	Ile	Cys	Glu		
65				70				75						80			
Ser	Ala	Glu	Gly	Asp	Ser	Gln	Ile	Gly	Thr	Val	Val	Glu	His	Val	Glu		
				85				90						95			
Ala	Glu	Ala	Gly	Ala	Ala	Ile	Met	Asn	Ala	Asn	Glu	Asn	Asn	Val	Asp		
			100				105					110					
Ser	Met	Ser	Gly	Thr	Glu	Lys	Gly	Ser	Lys	Asp	Thr	Asp	Ile	Cys	Ser		
			115			120						125					
Ser	Ala	Lys	Gly	Ile	Val	Glu	Ser	Ser	Val	Thr	Ser	Ala	Val	Ser	Gly		
			130			135					140						
Lys	Asp	Glu	Val	Thr	Pro	Val	Pro	Gly	Gly	Cys	Glu	Gly	Pro	Met	Thr		
145				150				155						160			
Ser	Ala	Ala	Ser	Asp	Gln	Ser	Asp	Ser	Gln	Leu	Glu	Lys	Val	Glu	Asp		
				165				170						175			
Thr	Thr	Ile	Ser	Thr	Gly	Leu	Val	Gly	Gly	Ser	Tyr	Asp	Val	Leu	Val		
			180			185							190				
Ser	Gly	Glu	Val	Pro	Glu	Cys	Glu	Val	Ala	His							
			195			200			203								

<210> 979  
 <211> 94  
 <212>Amino acid  
 <213> Homo sapiens

&lt;400&gt; 979

```

Val Cys Ile Ile Cys Leu Ile Phe Ser Tyr Tyr Ser Phe Asp Ser Ala
 1          5          10          15
Leu Gln Ser Ala Lys Ser Ser Leu Gly Gly Asn Asp Glu Leu Ser Ala
          20          25          30
Thr Phe Leu Glu Met Lys Gly His Phe Tyr Met Tyr Ala Gly Ser Leu
          35          40          45
Leu Leu Lys Met Gly Gln His Gly Asn Asn Val Gln Trp Arg Ala Leu
          50          55          60
Ser Glu Leu Ala Ala Leu Cys Tyr Leu Ile Ala Phe Gln Val Ser Leu
          65          70          75          80
Pro Leu Gly Ala Ile Asp Ile Ser Arg Ser Leu Asp Val Phe
          85          90          94

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&lt;210&gt; 980

&lt;211&gt; 226

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 980

```

Gln His Pro Ser Gln Glu Lys Pro Gln Val Leu Thr Pro Ser Pro Arg
 1          5          10          15
Lys Gln Lys Leu Asn Arg Lys Tyr Arg Ser His His Asp Gln Met Ile
          20          25          30
Cys Lys Cys Leu Ser Leu Ser Ile Ser Tyr Ser Ala Thr Ile Gly Gly
          35          40          45
Leu Thr Thr Ile Ile Gly Thr Ser Thr Ser Leu Ile Phe Leu Glu His
          50          55          60
Phe Asn Asn Gln Tyr Pro Ala Ser Glu Val Val Asn Phe Gly Thr Trp
          65          70          75          80
Phe Leu Phe Ser Phe Pro Ile Ser Leu Ile Met Leu Val Val Ser Trp
          85          90          95
Phe Trp Met His Trp Leu Phe Leu Gly Cys Asn Phe Lys Glu Thr Cys
          100          105          110
Ser Leu Ser Lys Lys Lys Lys Thr Lys Arg Glu Gln Leu Ser Glu Lys
          115          120          125
Arg Ile Gln Glu Glu Tyr Glu Lys Leu Gly Asp Ile Ser Tyr Pro Glu
          130          135          140
Met Val Thr Gly Phe Phe Phe Ile Leu Met Thr Val Leu Trp Phe Thr
          145          150          155          160
Arg Glu Pro Gly Phe Val Pro Gly Trp Asp Ser Phe Phe Glu Lys Lys
          165          170          175
Gly Tyr Arg Thr Asp Ala Thr Val Ser Val Phe Leu Gly Phe Leu Leu
          180          185          190
Phe Leu Ile Pro Ala Lys Lys Pro Cys Phe Gly Lys Lys Asn Asp Gly
          195          200          205
Glu Asn Gln Glu His Ser Leu Gly Thr Glu Pro Ile Ile Thr Trp Lys
          210          215          220
Asp Phe
225 226

```

&lt;210&gt; 981

&lt;211&gt; 163

<212>Amino acid  
<213> Homo sapiens

<400> 981  
 Leu Glu Arg Glu Gly Asp Lys Gly Thr Pro Val Leu Arg Gly Phe Ser  
 1 5 10 15  
 Ser Val Ser Gly Ser Trp Ser Arg Arg Met Pro Pro Phe Leu Leu Leu  
 20 25 30  
 Thr Cys Leu Phe Ile Thr Gly Thr Ser Val Ser Pro Val Ala Leu Asp  
 35 40 45  
 Pro Cys Ser Ala Tyr Ile Ser Leu Asn Glu Pro Trp Arg Asn Thr Asp  
 50 55 60  
 His Gln Leu Asp Glu Ser Gln Gly Pro Pro Leu Cys Asp Asn His Val  
 65 70 75 80  
 Asn Gly Glu Trp Tyr His Phe Thr Gly Met Ala Gly Asp Ala Met Pro  
 85 90 95  
 Thr Phe Cys Ile Pro Glu Asn His Cys Gly Thr His Ala Pro Val Trp  
 100 105 110  
 Leu Asn Gly Ser His Pro Leu Glu Gly Asp Gly Ile Val Gln Arg Gln  
 115 120 125  
 Ala Cys Ala Ser Phe Asn Gly Asn Cys Cys Leu Trp Asn Thr Thr Val  
 130 135 140  
 Glu Val Lys Ala Cys Pro Gly Gly Tyr Tyr Val Tyr Arg Leu Thr Lys  
 145 150 155 160  
 Pro Ser Val  
 163

<210> 982  
 <211> 327  
 <212>Amino acid  
 <213> Homo sapiens

<400> 982  
 Cys Gly Arg Thr Met Ser Asp Ile Arg His Ser Leu Leu Arg Arg Asp  
 1 5 10 15  
 Ala Leu Ser Ala Ala Lys Glu Val Leu Tyr His Leu Asp Ile Tyr Phe  
 20 25 30  
 Ser Ser Gln Leu Gln Ser Ala Pro Leu Pro Ile Val Asp Lys Gly Pro  
 35 40 45  
 Val Glu Leu Leu Glu Glu Phe Val Phe Gln Val Pro Lys Glu Arg Ser  
 50 55 60  
 Ala Gln Pro Lys Arg Leu Asn Ser Leu Gln Glu Leu Gln Leu Leu Glu  
 65 70 75 80  
 Ile Met Cys Asn Tyr Phe Gln Glu Gln Thr Lys Asp Ser Val Arg Gln  
 85 90 95  
 Ile Ile Phe Ser Ser Leu Phe Ser Pro Gln Gly Asn Lys Ala Asp Asp  
 100 105 110  
 Ser Arg Met Ser Leu Leu Gly Lys Leu Val Ser Met Ala Val Ala Val  
 115 120 125  
 Cys Arg Ile Pro Val Leu Glu Cys Ala Ala Ser Trp Leu Gln Arg Thr  
 130 135 140  
 Pro Val Val Tyr Cys Val Arg Leu Ala Lys Ala Leu Val Asp Asp Tyr  
 145 150 155 160  
 Cys Cys Leu Val Pro Gly Ser Ile Gln Thr Leu Lys Gln Ile Phe Ser  
 165 170 175

Ala Ser Pro Arg Phe Cys Cys Gln Phe Ile Thr Ser Val Thr Ala Leu  
 180 185 190  
 Tyr Asp Leu Ser Ser Asp Asp Leu Ile Pro Pro Met Asp Leu Leu Glu  
 195 200 205  
 Met Ile Val Thr Trp Ile Phe Glu Asp Pro Arg Leu Ile Leu Ile Thr  
 210 215 220  
 Phe Leu Asn Thr Pro Ile Ala Ala Asn Leu Pro Ile Gly Phe Leu Glu  
 225 230 235 240  
 Leu Thr Pro Leu Val Gly Leu Ile Arg Trp Cys Val Lys Ala Pro Leu  
 245 250 255  
 Ala Tyr Lys Arg Lys Lys Lys Pro Pro Leu Ser Asn Gly His Val Ser  
 260 265 270  
 Asn Lys Val Thr Lys Asp Pro Gly Val Gly Met Asp Arg Asp Ser His  
 275 280 285  
 Leu Leu Tyr Ser Lys Leu His Leu Ser Val Leu Gln Val Leu Met Thr  
 290 295 300  
 Leu Gln Leu His Leu Thr Glu Lys Asn Leu Tyr Gly Pro Pro Gly Ala  
 305 310 315 320  
 Asp Pro Leu Arg Pro His Gly  
 325 327

<210> 983  
 <211> 110  
 <212> Amino acid  
 <213> Homo sapiens

<400> 983  
 Ser Ala Cys Ser Thr Gly Pro Glu Leu Pro Gly Arg Ala Thr Arg Ser  
 1 5 10 15  
 Leu Thr Arg Pro Ala Asn Gln Lys Gly Cys Asp Gly Asp Arg Leu Tyr  
 20 25 30  
 Tyr Asp Gly Cys Ala Met Ile Ala Met Asn Gly Ser Val Phe Ala Gln  
 35 40 45  
 Gly Ser Gln Phe Ser Leu Asp Asp Val Glu Val Leu Thr Ala Thr Leu  
 50 55 60  
 Asp Leu Glu Asp Val Arg Ser Tyr Arg Ala Glu Ile Ser Ser Arg Asn  
 65 70 75 80  
 Leu Ala Val Ser Ala Pro Val Asp Thr Cys Val Gly Cys Ser Ser Lys  
 85 90 95  
 Thr Trp Lys Val Ala Pro Phe Val Arg Ala Trp Trp Arg Pro  
 100 105 110

<210> 984  
 <211> 80  
 <212> Amino acid  
 <213> Homo sapiens

<400> 984  
 Ala Pro Leu Ser Arg Leu Cys Phe Pro Gln Val Leu Val Asn Glu Gly  
 1 5 10 15  
 Gly Gly Phe Asp Arg Ala Ser Gly Ser Phe Val Ala Pro Val Arg Gly  
 20 25 30  
 Val Tyr Ser Phe Arg Phe His Val Val Lys Val Tyr Asn Arg Gln Thr  
 35 40 45

Val	Gln	Val	Thr	Ser	Ala	Leu	Ala	Pro	Ile	Pro	Gly	Ser	Gly	Gly	Trp
	50					55					60				
Gly	Gly	Gly	Arg	Arg	Gly	Ala	Gln	Leu	Thr	Ser	Gly	Trp	Thr	Leu	His
65					70					75					80

<210> 985  
 <211> 235  
 <212>Amino acid  
 <213> Homo sapiens

<400> 985

Pro	His	Ile	Ile	Gly	Ala	Glu	Asp	Asp	Asp	Phe	Gly	Thr	Glu	His	Glu
1				5					10					15	
Gln	Ile	Asn	Gly	Gln	Cys	Ser	Cys	Phe	Gln	Ser	Ile	Glu	Leu	Leu	Lys
		20						25					30		
Ser	Arg	Pro	Ala	His	Leu	Ala	Val	Phe	Leu	Arg	His	Val	Val	Ser	Gln
	35					40					45				
Phe	Asp	Pro	Ala	Thr	Leu	Leu	Cys	Tyr	Leu	Tyr	Ser	Asp	Leu	Tyr	Lys
	50				55					60					
His	Thr	Asn	Ser	Lys	Glu	Thr	Arg	Arg	Ile	Phe	Leu	Glu	Phe	His	Gln
65				70					75					80	
Phe	Phe	Leu	Asp	Arg	Ser	Ala	His	Leu	Lys	Val	Ser	Val	Pro	Asp	Glu
			85						90					95	
Met	Ser	Ala	Asp	Leu	Glu	Lys	Arg	Arg	Pro	Glu	Leu	Ile	Pro	Glu	Asp
		100						105					110		
Leu	His	Arg	His	Tyr	Ile	Gln	Thr	Met	Gln	Glu	Arg	Val	His	Pro	Glu
	115					120						125			
Val	Gln	Arg	His	Leu	Glu	Asp	Phe	Arg	Gln	Lys	Arg	Ser	Met	Gly	Leu
	130				135					140					
Thr	Leu	Ala	Glu	Ser	Glu	Leu	Thr	Lys	Leu	Asp	Ala	Glu	Arg	Asp	Lys
145				150					155					160	
Asp	Arg	Leu	Thr	Leu	Glu	Lys	Glu	Arg	Thr	Cys	Ala	Glu	Gln	Ile	Val
			165					170						175	
Ala	Lys	Ile	Glu	Glu	Val	Leu	Met	Thr	Ala	Gln	Ala	Val	Glu	Glu	Asp
		180						185					190		
Lys	Ser	Ser	Thr	Met	Gln	Tyr	Val	Ile	Leu	Met	Tyr	Met	Lys	His	Leu
	195					200						205			
Gly	Val	Lys	Val	Lys	Glu	Pro	Arg	Asn	Leu	Glu	His	Lys	Arg	Gly	Arg
	210				215						220				
Ile	Gly	Phe	Leu	Pro	Lys	Ile	Lys	Gln	Ser	Met					
225					230					235					

<210> 986  
 <211> 140  
 <212>Amino acid  
 <213> Homo sapiens

<400> 986

Ser	Pro	Gly	Thr	Gly	Arg	Gly	Pro	Gly	Pro	Thr	Ser	Phe	Val	Cys	Leu
1				5					10					15	
Pro	Thr	Pro	Gln	Cys	Pro	Phe	Ile	Asp	Asp	Phe	Ile	Leu	Ala	Leu	His
			20					25					30		

```

Arg Lys Ile Lys Asn Glu Pro Val Val Phe Pro Glu Gly Pro Glu Ile
    35              40              45
Ser Glu Glu Leu Lys Asp Leu Ile Leu Lys Met Leu Asp Lys Asn Pro
    50              55              60
Glu Thr Arg Ile Gly Val Pro Asp Ile Lys Leu His Pro Trp Val Thr
    65              70              75              80
Lys Asn Gly Glu Glu Pro Leu Pro Ser Glu Glu Glu His Cys Ser Val
    85              90              95
Val Glu Val Thr Glu Glu Glu Val Lys Asn Ser Val Arg Leu Ile Pro
    100             105             110
Ser Trp Thr Thr Val Ile Leu Val Lys Ser Met Leu Arg Lys Arg Ser
    115             120             125
Phe Gly Asn Pro Phe Glu Pro Gln Ala Arg Met Ala
    130             135             140

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<210> 987
<211> 242
<212>Amino acid
<213> Homo sapiens

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<400> 987
His Ala Ser Gly Ile Lys Ile Asp Lys Thr Ser Asp Gly Pro Lys Leu
  1              5              10              15
Phe Leu Thr Glu Glu Asp Gln Lys Lys Leu His Asp Phe Glu Glu Gln
    20              25              30
Cys Val Glu Met Tyr Phe Asn Glu Lys Asp Asp Lys Phe His Ser Gly
    35              40              45
Ser Glu Glu Arg Ile Arg Val Thr Phe Glu Arg Val Glu Gln Met Cys
    50              55              60
Ile Gln Ile Lys Glu Val Gly Asp Arg Val Asn Tyr Ile Lys Arg Ser
    65              70              75              80
Leu Gln Ser Leu Asp Ser Gln Ile Gly His Leu Gln Asp Leu Ser Ala
    85              90              95
Leu Thr Val Asp Thr Leu Lys Thr Leu Thr Ala Gln Lys Ala Ser Glu
    100             105             110
Ala Ser Lys Val His Asn Glu Ile Thr Arg Glu Leu Ser Ile Ser Lys
    115             120             125
His Leu Ala Gln Asn Leu Ile Asp Asp Gly Pro Val Arg Pro Ser Val
    130             135             140
Trp Lys Lys His Gly Val Val Asn Thr Leu Ser Ser Ser Leu Pro Gln
    145             150             155             160
Gly Asp Leu Glu Ser Asn Asn Pro Phe His Cys Asn Ile Leu Met Lys
    165             170             175
Asp Asp Lys Asp Pro Gln Cys Asn Ile Phe Gly Gln Asp Leu Pro Ala
    180             185             190
Val Pro Gln Arg Lys Glu Phe Asn Phe Pro Glu Ala Gly Ser Ser Ser
    195             200             205
Gly Ala Leu Phe Pro Ser Ala Val Ser Pro Pro Glu Leu Arg Gln Arg
    210             215             220
Leu His Gly Val Glu Leu Leu Lys Ile Phe Asn Lys Lys Gln Lys Lys
    225             230             235             240
Arg Ala
    242

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<210> 988
<211> 154
<212>Amino acid
<213> Homo sapiens

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&lt;400&gt; 988

```

Cys Cys Arg Trp Ile Asp Cys Phe Ala Leu Tyr Asp Gln Gln Glu Glu
 1      5      10      15
Leu Val Arg His Ile Glu Lys Val His Ile Asp Gln Arg Lys Gly Glu
      20      25      30
Asp Phe Thr Cys Phe Trp Ala Gly Cys Pro Arg Arg Tyr Lys Pro Phe
      35      40      45
Asn Ala Arg Tyr Lys Leu Leu Ile His Met Arg Val His Ser Gly Glu
      50      55      60
Lys Pro Asn Lys Cys Thr Phe Glu Gly Cys Glu Lys Ala Phe Ser Arg
      65      70      75      80
Leu Glu Asn Leu Lys Ile His Leu Arg Ser His Thr Gly Glu Lys Pro
      85      90      95
Tyr Leu Cys Gln His Pro Gly Cys Gln Lys Ala Phe Ser Asn Ser Ser
      100      105      110
Asp Arg Ala Lys His Gln Arg Thr His Leu Asp Thr Lys Pro Tyr Ala
      115      120      125
Cys Gln Ile Pro Gly Cys Thr Lys Arg Tyr Thr Asp Pro Ser Ser Leu
      130      135      140
Arg Lys His Val Lys Ala His Ser Ser Lys
145      150      154

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&lt;210&gt; 989

&lt;211&gt; 65

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 989

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Leu Pro Leu Leu Trp Thr Leu Ser Asp Phe Gly Gly Thr Met Asp Gln
 1      5      10      15
Ser Gly Met Glu Ile Pro Val Thr Leu Ile Ile Lys Ala Pro Asn Gln
      20      25      30
Lys Tyr Ser Asp Gln Thr Ile Ser Cys Phe Leu Asn Trp Thr Val Gly
      35      40      45
Lys Leu Lys Thr His Leu Ser Asn Val Tyr Pro Ser Lys Pro Val Ser
      50      55      60
Val
65

```

&lt;210&gt; 990

&lt;211&gt; 297

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 990

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Ala Gly Thr Arg Met Cys Val Val Ala Ala Ala Glu Glu Leu Val Cys
 1      5      10      15
Gly Ala Arg Gly Leu Trp Met Arg Arg Thr Arg Arg Pro Arg Phe Val
      20      25      30

```

Leu Met Asn Lys Met Asp Asp Leu Asn Leu His Tyr Arg Phe Leu Asn  
           35                                  40                                  45  
 Trp Arg Arg Arg Ile Arg Glu Ile Arg Glu Val Arg Ala Phe Arg Tyr  
           50                                  55                                  60  
 Gln Glu Arg Phe Lys His Ile Leu Val Asp Gly Asp Thr Leu Ser Tyr  
           65                                  70                                  75                                  80  
 His Gly Asn Ser Gly Glu Val Gly Cys Tyr Val Ala Ser Arg Pro Leu  
                                   85                                  90                                  95  
 Thr Lys Asp Ser Asn Tyr Phe Glu Val Ser Ile Val Asp Ser Gly Val  
                                   100                                  105                                  110  
 Arg Gly Thr Ile Ala Val Gly Leu Val Pro Gln Tyr Tyr Ser Leu Asp  
                                   115                                  120                                  125  
 His Gln Pro Gly Trp Leu Pro Asp Ser Val Ala Tyr His Ala Asp Asp  
                                   130                                  135                                  140  
 Gly Lys Leu Tyr Asn Gly Arg Ala Lys Gly Arg Gln Phe Gly Ser Lys  
                                   145                                  150                                  155                                  160  
 Cys Asn Ser Gly Asp Arg Ile Gly Cys Gly Ile Glu Pro Val Ser Phe  
                                   165                                  170                                  175  
 Asp Val Gln Thr Ala Gln Ile Phe Phe Thr Lys Asn Gly Lys Arg Val  
                                   180                                  185                                  190  
 Gly Ser Thr Ile Met Pro Met Ser Pro Asp Gly Leu Phe Pro Ala Val  
                                   195                                  200                                  205  
 Gly Met His Ser Leu Gly Glu Glu Val Arg Leu His Leu Asn Ala Glu  
                                   210                                  215                                  220  
 Leu Gly Arg Glu Asp Asp Ser Val Met Met Val Asp Ser Tyr Glu Asp  
                                   225                                  230                                  235                                  240  
 Glu Trp Gly Arg Leu His Asp Val Arg Val Cys Gly Thr Leu Leu Glu  
                                   245                                  250                                  255  
 Tyr Leu Gly Lys Gly Lys Ser Ile Val Asp Val Gly Leu Ala Gln Ala  
                                   260                                  265                                  270  
 Arg His Pro Leu Ser Thr Arg Ser His Tyr Phe Glu Val Glu Ile Val  
                                   275                                  280                                  285  
 Asp Pro Gly Glu Lys Cys Tyr Ile Ala  
                                   290                                  295                                  297

<210> 991  
 <211> 207  
 <212> Amino acid  
 <213> Homo sapiens

<400> 991  
 Gln Gln Ala Glu Glu His Leu Ala Ala Tyr Ser Val Ser Asp Ser Asp  
   1                                  5                                  10                                  15  
 Ser Gly Lys Asp Pro Ser Met Glu Cys Cys Arg Arg Ala Thr Pro Gly  
           20                                  25                                  30  
 Thr Leu Leu Leu Phe Leu Ala Phe Leu Leu Leu Ser Ser Arg Thr Ala  
           35                                  40                                  45  
 Arg Ser Glu Glu Asp Arg Asp Gly Leu Trp Asp Ala Trp Gly Pro Trp  
           50                                  55                                  60  
 Ser Glu Cys Ser Arg Thr Cys Gly Gly Gly Ala Ser Tyr Ser Leu Arg  
           65                                  70                                  75                                  80  
 Arg Cys Leu Ser Ser Lys Ser Cys Glu Gly Arg Asn Ile Arg Tyr Arg  
                                   85                                  90                                  95  
 Thr Cys Ser Asn Val Asp Cys Pro Pro Glu Ala Gly Asp Phe Arg Ala  
                                   100                                  105                                  110  
 Gln Gln Cys Ser Ala His Asn Asp Val Lys His His Gly Gln Phe Tyr  
                                   115                                  120                                  125  
 Glu Trp Leu Pro Val Ser Asn Asp Pro Asp Asn Pro Cys Ser Leu Lys  
           130                                  135                                  140

Cys Gln Ala Lys Gly Thr Thr Leu Val Val Glu Leu Ala Pro Lys Val  
 145 150 155 160  
 Leu Asp Gly Thr Arg Cys Tyr Thr Glu Ser Leu Asp Met Cys Ile Ser  
 165 170 175  
 Gly Leu Cys Gln Val Ser Ala Asp Leu Phe Ser Phe Asn Leu Ser Arg  
 180 185 190  
 Gly Phe Gln Cys Leu Cys Val Asn Gly Leu His Ser Leu Thr Leu  
 195 200 205 207

<210> 992  
 <211> 184  
 <212> Amino acid  
 <213> Homo sapiens

<400> 992  
 Arg Leu Leu Arg Gln Glu Leu Val Val Leu Cys His Leu His His Pro  
 1 5 10 15  
 Ser Leu Ile Ser Leu Leu Ala Ala Gly Ile Arg Pro Arg Met Leu Val  
 20 25 30  
 Met Glu Leu Ala Ser Lys Gly Ser Leu Asp Arg Leu Leu Gln Gln Asp  
 35 40 45  
 Lys Ala Ser Leu Thr Arg Thr Leu Gln His Arg Ile Ala Leu His Val  
 50 55 60  
 Ala Asp Gly Leu Arg Tyr Leu His Ser Ala Met Ile Ile Tyr Arg Asp  
 65 70 75 80  
 Leu Lys Pro His Asn Val Leu Leu Phe Thr Leu Tyr Pro Asn Ala Ala  
 85 90 95  
 Ile Ile Ala Lys Ile Ala Asp Tyr Gly Ile Ala Gln Tyr Cys Cys Arg  
 100 105 110  
 Met Gly Ile Lys Thr Ser Glu Gly Thr Pro Gly Phe Arg Ala Pro Glu  
 115 120 125  
 Val Ala Arg Gly Asn Val Ile Tyr Asn Gln Gln Ala Asp Val Tyr Ser  
 130 135 140  
 Phe Gly Leu Leu Leu Tyr Asp Ile Leu Thr Thr Gly Gly Arg Ile Val  
 145 150 155 160  
 Glu Gly Leu Lys Phe Pro Asn Glu Phe Asp Glu Leu Glu Ile Gln Gly  
 165 170 175  
 Lys Leu Pro Asp Pro Val Lys Glu  
 180 184

<210> 993  
 <211> 144  
 <212> Amino acid  
 <213> Homo sapiens

<400> 993  
 Lys Ala Ser Asn Ser Thr His Glu Phe Arg Ile Gly Leu Pro Glu Gly  
 1 5 10 15  
 Trp Glu Ser Glu Lys Lys Ala Val Ile Pro Leu Gly Ile Gly Pro Pro  
 20 25 30  
 Leu Thr Leu Ile Cys Leu Gly Val Leu Gly Gly Ile Leu Ile Tyr Gly  
 35 40 45  
 Arg Lys Gly Phe Gln Thr Ala His Phe Tyr Leu Lys Asp Ser Pro Ser  
 50 55 60

```

Pro Lys Val Ile Ser Thr Pro Pro Pro Pro Ile Phe Pro Ile Ser Lys
 65              70              75              80
Glu Val Gly Pro Ile Pro Ile Lys His Phe Pro Lys His Val Ala Asn
              85              90              95
Leu His Ala Ser Arg Gly Phe Thr Glu Lys Phe Glu Thr Leu Lys Lys
              100              105              110
Phe Tyr Gln Glu Gly Gln Ser Cys Thr Val Asp Leu Gly Ile Thr Ala
              115              120              125
Asn Ser Ser Asn His Pro Asp Asn Arg His Arg Asn Arg Ser Leu Ile
 130              135              140              144

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<210> 994
<211> 147
<212>Amino acid
<213> Homo sapiens

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<400> 994
Ser Phe Pro Asp Arg Thr Ala Ser Leu Val Leu Leu Ser Val Pro Val
 1              5              10              15
Gly Gln Ala Gly Met Gln Gln Arg Gly Leu Ala Ile Val Ala Leu Ala
              20              25              30
Val Cys Ala Ala Leu His Ala Ser Pro Ala Ile Leu Pro Ile Ala Ser
              35              40              45
Ser Cys Cys Thr Glu Val Ser His His Ile Ser Arg Arg Leu Leu Glu
              50              55              60
Arg Val Asn Met Cys Arg Ile Gln Arg Ala Asp Gly Asp Cys Asp Leu
 65              70              75              80
Ala Ala Val Ile Leu His Val Lys Arg Arg Arg Ile Cys Val Ser Pro
              85              90              95
His Asn His Thr Val Lys Gln Trp Met Lys Val Gln Ala Ala Lys Lys
              100              105              110
Asn Gly Lys Gly Asn Val Cys His Arg Lys Lys His His Gly Lys Arg
              115              120              125
Asn Ser Asn Arg Ala His Gln Gly Lys His Glu Thr Tyr Gly His Lys
 130              135              140
Thr Pro Tyr
145      147

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<210> 995
<211> 245
<212>Amino acid
<213> Homo sapiens

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```

<400> 995
Phe Glu Gln Pro Gly Asn Pro Gly Asp Pro Arg Val Arg Thr Pro Pro
 1              5              10              15
Pro Trp Gly Pro His Phe Phe Ala Leu Ile Pro Ser Ser Pro Lys Glu
              20              25              30
Val Pro Ala Thr Pro Ser Ser Arg Arg Asp Pro Ile Ala Pro Thr Ala
              35              40              45
Thr Leu Leu Ser Lys Lys Thr Pro Ala Thr Leu Ala Pro Lys Glu Ala
 50              55              60

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```

Leu Ile Pro Pro Ala Met Thr Val Pro Ser Pro Lys Lys Thr Pro Ala
 65              70              75              80
Ile Pro Thr Pro Lys Glu Ala Pro Ala Thr Pro Ser Ser Lys Glu Ala
              85              90              95
Ser Ser Pro Pro Ala Val Thr Pro Ser Thr Tyr Lys Gly Ala Pro Ser
      100              105              110
Pro Lys Glu Leu Leu Ile Pro Pro Ala Val Thr Ser Pro Ser Pro Lys
      115              120              125
Glu Ala Pro Thr Pro Pro Ala Val Thr Pro Pro Ser Pro Glu Lys Gly
      130              135              140
Pro Ala Thr Pro Ala Pro Lys Gly Thr Pro Thr Ser Pro Pro Val Thr
      145              150              155              160
Pro Ser Ser Leu Lys Asp Ser Pro Thr Ser Pro Ala Ser Val Thr Cys
              165              170              175
Lys Met Gly Ala Thr Val Pro Gln Ala Ser Lys Gly Leu Pro Ala Lys
      180              185              190
Lys Gly Pro Thr Ala Leu Lys Glu Val Leu Val Ala Pro Ala Pro Glu
      195              200              205
Ser Thr Pro Ile Ile Thr Ala Pro Thr Arg Lys Gly Pro Gln Thr Lys
      210              215              220
Lys Ser Ser Ala Thr Ser Pro Pro Ile Cys Pro Asp Pro Ser Ala Lys
      225              230              235              240
Asn Gly Ser Lys Gly
              245

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<210> 996
<211> 25
<212>Amino acid
<213> Homo sapiens

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```

<400> 996
Phe Phe Leu Lys Ile Gln Gly Leu Gly Trp Ala Arg Trp Leu Thr Pro
 1              5              10              15
Val Ile Pro Val Leu Trp Glu Ala Glu
              20              25

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```

<210> 997
<211> 56
<212>Amino acid
<213> Homo sapiens

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```

<400> 997
Ala Gly Phe Gly Tyr Gly Leu Pro Ile Ser Arg Leu Tyr Ala Lys Tyr
 1              5              10              15
Phe Gln Gly Asp Leu Asn Leu Tyr Ser Leu Ser Gly Tyr Gly Thr Asp
      20              25              30
Ala Ile Ile Tyr Leu Lys Val Ser Leu Glu Phe Asn Ser Lys Ile Leu
      35              40              45
Phe Leu Lys Pro Leu Leu Leu Leu
      50              55 56

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<210> 998
<211> 198

```

<212>Amino acid  
<213> Homo sapiens

<400> 998  
 Trp Met Arg Ala Pro Met Leu Gln Lys Gln Gln Ala Pro Arg Met Asp  
   1                  5                  10                  15  
 Thr Pro Pro Pro Glu Glu Arg Leu Glu Lys Gln Asn Glu Lys Leu Asn  
                   20                  25                  30  
 Asn Gln Glu Glu Glu Thr Glu Phe Lys Glu Leu Asp Gly Leu Arg Glu  
           35                  40                  45  
 Ala Leu Ala Asn Leu Arg Gly Leu Ser Glu Glu Glu Arg Ser Glu Lys  
           50                  55                  60  
 Ala Met Leu Arg Ser Arg Ile Glu Glu Gln Ser Gln Leu Ile Cys Ile  
                   65                  70                  75                  80  
 Leu Lys Arg Arg Ser Asp Glu Ala Leu Glu Arg Cys Gln Ile Leu Glu  
                   85                  90                  95  
 Leu Leu Asn Ala Glu Leu Glu Glu Lys Met Met Gln Glu Ala Glu Lys  
                   100                  105                  110  
 Leu Lys Ala Gln Gly Glu Tyr Ser Arg Lys Leu Glu Glu Arg Phe Met  
           115                  120                  125  
 Thr Leu Ala Ala Asn His Glu Leu Met Leu Arg Phe Lys Asp Glu Tyr  
           130                  135                  140  
 Lys Ser Glu Asn Ile Lys Leu Arg Glu Glu Asn Glu Lys Leu Arg Leu  
                   145                  150                  155                  160  
 Glu Asn Asn Ser Leu Phe Ser Gln Ala Leu Lys Asp Glu Glu Ala Lys  
                   165                  170                  175  
 Val Leu Gln Leu Thr Val Arg Cys Glu Ala Leu Thr Gly Glu Leu Glu  
                   180                  185                  190  
 Thr Leu Lys Glu Arg Cys  
           195                  198

<210> 999  
 <211> 79  
 <212>Amino acid  
 <213> Homo sapiens

<400> 999  
 Asp Pro Gly Ala Ser His Ala Ser Val Gln Val Gln Val Leu Lys Glu  
   1                  5                  10                  15  
 Gln Leu Phe Ala Gly Arg Met Pro Ser Pro Phe Arg Ser Cys Ala Leu  
                   20                  25                  30  
 Met Gly Met Cys Gly Ser Arg Ser Ala Asp Asn Leu Ser Cys Pro Ser  
           35                  40                  45  
 Pro Leu Asn Val Met Glu Pro Val Ser Phe Phe Pro Leu Lys Ser Leu  
           50                  55                  60  
 Gly Lys Gly Met Ile Gln His Phe Arg His Ile Val Ser Leu Val  
           65                  70                  75                  79

<210> 1000  
 <211> 206  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1000  
 Val Thr Thr Thr Thr His Ser Val Gly Arg Gly His Glu Leu Gln Leu  
 1 5 10 15  
 Leu Asn Glu Glu Leu Arg Asn Ile Glu Leu Glu Cys Gln Asn Ile Met  
 20 25 30  
 Gln Ala His Arg Leu Gln Lys Val Thr Asp Gln Tyr Gly Asp Ile Trp  
 35 40 45  
 Thr Leu His Asp Gly Gly Phe Arg Asn Tyr Asn Thr Ser Ile Asp Met  
 50 55 60  
 Gln Arg Gly Lys Leu Asp Asp Ile Met Glu His Pro Glu Lys Ser Asp  
 65 70 75 80  
 Lys Asp Ser Ser Ser Ala Tyr Asn Thr Ala Glu Ser Cys Arg Ser Thr  
 85 90 95  
 Pro Leu Thr Val Asp Arg Ser Pro Asp Ser Ser Leu Pro Arg Val Ile  
 100 105 110  
 Asn Leu Thr Asn Lys Lys Asn Leu Arg Ser Thr Met Ala Ala Thr Gln  
 115 120 125  
 Ser Ser Ser Gly Gln Ser Ser Lys Glu Ser Thr Ser Thr Lys Ala Lys  
 130 135 140  
 Thr Thr Glu Gln Gly Cys Ser Ala Glu Ser Lys Glu Lys Val Leu Glu  
 145 150 155 160  
 Gly Ser Lys Leu Pro Asp Gln Glu Lys Ala Val Ser Glu His Ile Pro  
 165 170 175  
 Tyr Leu Ser Pro Tyr His Ser Ser Ser Tyr Arg Tyr Ala Asn Ile Pro  
 180 185 190  
 Ala His Ala Arg His Tyr Gln Ser Tyr Met Gln Leu Ile Gln  
 195 200 205 206

<210> 1001  
 <211> 138  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1001  
 Val Trp Gly Cys Leu Ala Thr Val Ser Thr His Lys Lys Ile Gln Gly  
 1 5 10 15  
 Leu Pro Phe Gly Asn Cys Leu Pro Val Ser Asp Gly Pro Phe Asn Asn  
 20 25 30  
 Ser Thr Gly Ile Pro Phe Phe Tyr Met Thr Ala Lys Asp Pro Val Val  
 35 40 45  
 Ala Asp Leu Met Lys Asn Pro Met Ala Ser Leu Met Leu Pro Glu Ser  
 50 55 60  
 Glu Gly Glu Phe Cys Arg Lys Asn Ile Val Asp Pro Glu Asp Pro Arg  
 65 70 75 80  
 Cys Val Gln Leu Thr Leu Thr Gly Gln Met Ile Ala Val Ser Pro Glu  
 85 90 95  
 Glu Val Glu Phe Ala Lys Gln Ala Met Phe Ser Arg His Pro Gly Met  
 100 105 110  
 Arg Lys Trp Pro Arg Gln Tyr Glu Trp Phe Phe Met Lys Met Arg Ile  
 115 120 125  
 Glu His Ile Trp Leu Gln Lys Trp Tyr Gly  
 130 135 138

<210> 1002  
 <211> 133

<212>Amino acid  
<213> Homo sapiens

<400> 1002  
Gln Ala Ala Asn Met Ala Val Ala Arg Val Asp Ala Ala Leu Pro Pro  
1 5 10 15  
Gly Glu Gly Ser Val Val Asn Trp Ser Gly Gln Gly Leu Gln Lys Leu  
20 25 30  
Gly Pro Asn Leu Pro Cys Glu Ala Asp Ile His Thr Leu Ile Leu Asp  
35 40 45  
Lys Asn Gln Ile Ile Lys Leu Glu Asn Leu Glu Lys Cys Lys Arg Leu  
50 55 60  
Ile Gln Leu Ser Val Ala Asn Asn Arg Leu Val Arg Met Met Gly Val  
65 70 75 80  
Ala Lys Leu Thr Leu Leu Arg Val Leu Asn Leu Pro His Asn Ser Ile  
85 90 95  
Gly Cys Val Glu Gly Leu Lys Glu Leu Val His Leu Glu Trp Leu Asn  
100 105 110  
Leu Ala Gly Asn Asn Leu Ile Ala Met Glu Gln Ile Asn Ser Cys Thr  
115 120 125  
Ala Leu Gln His Leu  
130 133

<210> 1003  
<211> 276  
<212>Amino acid  
<213> Homo sapiens

<400> 1003  
Phe Arg Ala Ala Val Gly Ala Val Pro Glu Gly Ala Trp Lys Asp Thr  
1 5 10 15  
Ala Gln Leu His Lys Ser Glu Glu Ala Lys Arg Val Leu Arg Tyr Tyr  
20 25 30  
Leu Phe Gln Gly Gln Arg Tyr Ile Trp Ile Glu Thr Gln Gln Ala Phe  
35 40 45  
Tyr Gln Val Ser Leu Leu Asp His Gly Arg Ser Cys Asp Asp Val His  
50 55 60  
Arg Ser Arg His Gly Leu Ser Leu Gln Asp Gln Met Glu Arg Lys Ala  
65 70 75 80  
Ile Tyr Gly Pro Asn Val Ile Ser Ile Pro Val Lys Ser Tyr Pro Gln  
85 90 95  
Leu Leu Val Asp Glu Ala Phe Ser Ile Ala Leu Trp Leu Ala Asp His  
100 105 110  
Tyr Tyr Trp Tyr Ala Leu Cys Ile Phe Leu Ile Ser Ser Ile Ser Ile  
115 120 125  
Cys Leu Ser Leu Tyr Lys Thr Arg Lys Gln Ser Gln Thr Leu Arg Asp  
130 135 140  
Met Val Lys Leu Ser Met Arg Val Cys Val Cys Arg Pro Gly Gly Glu  
145 150 155 160  
Glu Glu Trp Val Asp Ser Ser Glu Leu Val Pro Gly Asp Cys Leu Val  
165 170 175  
Leu Ser Gln Glu Gly Gly Leu Met Pro Cys Asp Ala Ala Leu Val Ala  
180 185 190  
Gly Glu Cys Met Val Asn Asp Ser Ser Leu Thr Gly Glu Ser Ile Pro  
195 200 205



Val Leu Lys Thr Ala Leu Pro Glu Gly Leu Gly Pro Tyr Cys Ala Glu  
 210 215 220  
 Thr His Arg Arg His Thr Leu Phe Cys Gly Thr Leu Ile Leu His Ala  
 225 230 235 240  
 Arg Ala Tyr Val Gly Pro His Val Leu Ala Val Val Thr Arg Thr Gly  
 245 250 255  
 Met Ser Arg Glu Ala Gly Leu Glu Arg Asp Pro Gly Ser Ala Pro Leu  
 260 265 270  
 Lys Arg Trp Ser  
 275 276

<210> 1004  
 <211> 222  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1004  
 Phe Val Gly Gly Gly Leu His Leu His Leu Cys Leu Leu Leu Cys Phe  
 1 5 10 15  
 Met Leu Pro Glu Asp Ala Ala Met Ala Val Leu Thr Ala Ser Asn His  
 20 25 30  
 Val Ser Asn Val Thr Val Asn Tyr Asn Ile Thr Val Glu Arg Met Asn  
 35 40 45  
 Arg Met Gln Gly Leu Arg Val Ser Thr Val Pro Ala Val Leu Ser Pro  
 50 55 60  
 Asn Ala Thr Leu Ala Leu Thr Ala Gly Val Leu Val Asp Ser Ala Val  
 65 70 75 80  
 Glu Val Ala Phe Leu Trp Thr Phe Gly Asp Gly Glu Gln Ala Leu His  
 85 90 95  
 Gln Phe Gln Pro Tyr Asn Glu Ser Phe Pro Val Pro Asp Pro Ser  
 100 105 110  
 Val Ala Gln Val Leu Val Glu His Asn Val Thr His Thr Tyr Ala Ala  
 115 120 125  
 Pro Gly Glu Tyr Val Leu Thr Val Leu Ala Ser Asn Ala Phe Glu Asn  
 130 135 140  
 Arg Thr Gln Gln Val Leu Ile Arg Ser Gly Arg Val Pro Ile Val Ser  
 145 150 155 160  
 Leu Glu Cys Val Ser Cys Lys Ala Gln Ala Val Tyr Glu Val Ser Arg  
 165 170 175  
 Ser Ser Tyr Val Tyr Leu Glu Gly Arg Cys Leu Asn Cys Ser Ser Gly  
 180 185 190  
 Ser Lys Arg Gly Arg Trp Ala Ala Arg Thr Phe Ser Asn Lys Thr Leu  
 195 200 205  
 Val Leu Asp Glu Thr Thr Thr Ser Thr Gly Ser Ala Ser Met  
 210 215 220 222

<210> 1005  
 <211> 363  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1005  
 Pro Glu Phe Leu Gly Arg Leu Phe Arg Gly Lys Ala Ala Thr Leu His  
 1 5 10 15

```

Val His Ser Asp Gln Lys Pro Leu His Asp Gly Ala Leu Gly Ser Gln
      20              25              30
Gln Asn Leu Val Arg Met Lys Glu Ala Leu Arg Ala Ser Thr Met Asp
      35              40              45
Val Thr Val Val Leu Pro Ser Gly Leu Glu Lys Arg Ser Val Leu Asn
      50              55              60
Gly Ser His Ala Met Met Asp Leu Leu Val Glu Leu Cys Leu Gln Asn
      65              70              75              80
His Leu Asn Pro Ser His His Ala Leu Glu Ile Arg Ser Ser Glu Thr
      85              90              95
Gln Gln Pro Leu Ser Phe Lys Pro Asn Thr Leu Ile Gly Thr Leu Asn
      100             105             110
Val His Thr Val Phe Leu Lys Glu Lys Val Pro Glu Glu Lys Val Lys
      115             120             125
Pro Gly Pro Pro Lys Val Pro Glu Lys Ser Val Arg Leu Val Val Asn
      130             135             140
Tyr Leu Arg Thr Gln Lys Ala Val Val Arg Val Ser Pro Glu Val Pro
      145             150             155             160
Leu Gln Asn Ile Leu Pro Val Ile Cys Ala Lys Cys Glu Val Ser Pro
      165             170             175
Glu His Val Val Leu Leu Arg Asp Asn Ile Ala Gly Glu Glu Leu Glu
      180             185             190
Leu Ser Lys Ser Leu Asn Glu Leu Gly Ile Lys Glu Leu Tyr Ala Trp
      195             200             205
Asp Asn Arg Arg Glu Thr Phe Arg Lys Ser Ser Leu Gly Asn Asp Glu
      210             215             220
Thr Asp Lys Glu Lys Lys Lys Phe Leu Gly Phe Phe Lys Val Asn Lys
      225             230             235             240
Arg Ser Asn Ser Lys Gly Cys Leu Thr Thr Pro Asn Ser Pro Ser Met
      245             250             255
His Ser Arg Ser Leu Thr Leu Gly Pro Ser Leu Ser Leu Gly Ser Ile
      260             265             270
Ser Gly Val Ser Val Lys Ser Glu Met Lys Lys Arg Arg Ala Pro Pro
      275             280             285
Pro Pro Gly Ser Gly Pro Pro Val Gln Asp Lys Ala Ser Glu Lys Val
      290             295             300
Ser Leu Gly Ser Gln Ile Asp Leu Gln Lys Lys Lys Arg Arg Ala Pro
      305             310             315             320
Ala Pro Pro Pro Pro Gln Pro Pro Pro Pro Ser Pro Leu Ile Pro Asn
      325             330             335
Arg Thr Glu Asp Lys Glu Glu Asn Arg Lys Ser Thr Met Val Tyr Cys
      340             345             350
Cys Ala Ser Phe Pro Thr Gln Ala Lys Arg Phe
      355             360             363

```

&lt;210&gt; 1006

&lt;211&gt; 95

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(95)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1006

```

Val Gln Trp His Asn Leu His Ser Leu Gln Pro Leu Pro Ala Gly Phe
  1              5              10             15
Lys Xaa Phe Leu Cys Phe Ser Leu Pro Ser Ser Trp Asp Tyr Arg Cys

```

```

                20                25                30
Ala Pro Pro Leu Pro Ala Pro Phe Phe Phe Tyr Phe Leu Phe Leu Val
                35                40                45
Glu Leu Gly Phe His His Ile Gly Xaa Ala Gly Leu Glu Leu Thr Ser
                50                55                60
Thr Asp Leu Pro Ala Ser Ala Ser Glu Ser Ala Gly Ile Thr Gly Met
                65                70                75                80
Ser His Arg Ala Arg Pro Met Asp Phe Phe Leu Leu Lys Ile Leu
                85                90                95

```

```

<210> 1007
<211> 151
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1007
Gly Arg Arg Phe Arg Pro Pro Ser Asp Glu Glu Arg Glu Pro Trp Glu
 1                5                10                15
Pro Trp Thr Gln Leu Arg Leu Ser Gly His Leu Lys Pro Leu His Tyr
                20                25                30
Asn Leu Met Leu Thr Ala Phe Met Glu Asn Phe Thr Phe Ser Gly Glu
                35                40                45
Val Asn Val Glu Ile Ala Cys Arg Asn Ala Thr Arg Tyr Val Val Leu
                50                55                60
His Ala Ser Arg Val Ala Val Glu Lys Val Gln Leu Ala Glu Asp Arg
                65                70                75                80
Ala Phe Gly Ala Val Pro Val Ala Gly Phe Phe Leu Tyr Pro Gln Thr
                85                90                95
Gln Val Leu Val Val Leu Asn Arg Thr Leu Asp Ala Gln Arg Asn
                100                105                110
Tyr Asn Leu Lys Ile Ile Tyr Asn Ala Leu Ile Glu Asn Glu Leu Leu
                115                120                125
Gly Phe Phe Arg Ser Ser Tyr Val Leu His Gly Glu Arg Arg Phe Leu
                130                135                140
Gly Val Thr Gln Phe Ser Pro
145                150 151

```

```

<210> 1008
<211> 64
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(64)
<223> X = any amino acid or stop code

```

```

<400> 1008
Lys Glu Leu Asp Pro Phe Tyr Asn Ser Xaa Arg Lys Ile Lys Tyr Leu
 1                5                10                15
Arg Ile Tyr Leu Thr Lys Glu Val Lys Asp Leu Tyr Lys Glu Asn Tyr
                20                25                30
Lys Thr Leu Leu Lys Glu Ile Thr Asp Asp Thr Asn Lys Lys His Ile
                35                40                45

```

Pro Ser Ser Trp Thr Gly Arg Ile Asn Thr Val Lys Met Thr Ile Leu  
 50 55 60 64

<210> 1009  
 <211> 60  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1009  
 Val Pro His Pro Leu Gln Ala Ile His Glu Gln Met Asn Cys Lys Glu  
 1 5 10 15  
 Tyr Gln Glu Asp Leu Ala Leu Arg Ala Gln Asn Asp Ala Ala Arg  
 20 25 30  
 Arg Pro Ser Glu Met Phe Lys Val Arg Leu Ala Gln Gly Arg Gly Leu  
 35 40 45  
 Ala Ser Leu Ser Ser Gly Ile Gln Ser Gly Val Gly  
 50 55 60

<210> 1010  
 <211> 44  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1010  
 Arg Trp Asn Ser Leu Thr Cys Val Val Leu Thr Phe Leu Gly His Arg  
 1 5 10 15  
 Leu Leu Lys Arg Phe Leu Val Pro Lys Leu Arg Arg Phe Leu Lys Pro  
 20 25 30  
 Gln Gly His Pro Arg Leu Leu Leu Trp Phe Lys Arg  
 35 40 44

<210> 1011  
 <211> 219  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1011  
 Tyr Gly Glu Phe Val Thr Tyr Gln Gly Val Ala Val Thr Arg Ser Arg  
 1 5 10 15  
 Lys Glu Gly Ile Ala His Asn Tyr Lys Asn Glu Thr Glu Trp Arg Ala  
 20 25 30  
 Asn Ile Asp Thr Val Met Ala Trp Phe Thr Glu Glu Asp Leu Asp Leu  
 35 40 45  
 Val Thr Leu Tyr Phe Gly Glu Pro Asp Ser Thr Gly His Arg Tyr Gly  
 50 55 60  
 Pro Glu Ser Pro Glu Arg Arg Glu Met Val Arg Gln Val Asp Arg Thr  
 65 70 75 80

Val Gly Tyr Leu Arg Glu Ser Ile Ala Arg Asn His Leu Thr Asp Arg  
                                   85                                  90                                  95  
 Leu Asn Leu Ile Ile Thr Ser Asp His Gly Met Thr Thr Val Asp Lys  
                                   100                                  105                                  110  
 Arg Ala Gly Asp Leu Val Glu Phe His Lys Phe Pro Asn Phe Thr Phe  
                                   115                                  120                                  125  
 Arg Asp Ile Glu Phe Glu Leu Leu Asp Tyr Gly Pro Asn Gly Met Leu  
                                   130                                  135                                  140  
 Leu Pro Lys Glu Gly Arg Leu Glu Lys Val Tyr Asp Ala Leu Lys Asp  
                                   145                                  150                                  155                                  160  
 Ala His Pro Lys Leu His Val Tyr Lys Lys Glu Ala Phe Pro Glu Ala  
                                   165                                  170                                  175  
 Phe His Tyr Ala Asn Asn Pro Arg Val Thr Pro Leu Leu Met Tyr Ser  
                                   180                                  185                                  190  
 Asp Leu Gly Tyr Val Ile His Gly Val Ser Arg Leu Leu Glu Ala Pro  
                                   195                                  200                                  205  
 Pro Pro Gly Ala Pro Ser Pro Gly Ser Gly Ser  
                                   210                                  215                                  219

<210> 1012  
 <211> 89  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1012  
 Arg Ile Pro Leu Leu Arg Leu Arg Ser Ser Thr Tyr Arg Ser Lys Gly  
   1                                  5                                  10                                  15  
 Phe Asp Val Thr Val Lys His Ser His Gly Ser Trp Thr Gly Phe Gly  
                                   20                                  25                                  30  
 Gly Glu Asp Leu Ala Thr Ile Pro Lys Gly Leu Asn Thr Tyr Phe Leu  
                                   35                                  40                                  45  
 Val Asn Ile Ala Thr Ile Phe Glu Ser Lys Asn Phe Phe Leu Pro Gly  
                                   50                                  55                                  60  
 Ile Lys Trp Asn Gly Ile Leu Gly Leu Ser Tyr Ala Thr Leu Ala Lys  
                                   65                                  70                                  75                                  80  
 Pro Ser Ser Ser Leu Glu Thr Phe Phe  
                                   85                                  89

<210> 1013  
 <211> 82  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1013  
 Ile Lys Ser Tyr Ser Gly Pro Asn Gly Arg Ser Cys Gln Ile Trp Gln  
   1                                  5                                  10                                  15  
 Arg Leu Arg Trp Gly Ser Arg Glu Leu Leu Leu Gly Trp Lys Leu Ser  
                                   20                                  25                                  30  
 His Ser Phe Ser Thr Cys Pro Phe Gln Phe Pro Asp Ile Val Glu Phe  
                                   35                                  40                                  45  
 Cys Glu Ala Met Ala Asn Ala Gly Lys Thr Val Ile Val Ala Ala Leu  
                                   50                                  55                                  60  
 Asp Gly Thr Phe Gln Arg Lys Val Arg Arg Leu Ile Gln Val Trp Ser  
                                   65                                  70                                  75                                  80

Trp Asp  
82

<210> 1014  
<211> 107  
<212>Amino acid  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<222> (1)...(107)  
<223> X = any amino acid or stop code

<400> 1014  
Tyr Cys Phe Cys Phe Asp Leu Leu His Xaa Cys Ile His Arg Asp Val  
1 5 10 15  
Lys Pro Glu Asn Ile Leu Ile Thr Lys His Ser Val Ile Lys Leu Cys  
20 25 30  
Asp Phe Gly Phe Ala Arg Leu Leu Thr Gly Pro Ser Asp Tyr Tyr Thr  
35 40 45  
Asp Tyr Val Ala Thr Arg Trp Tyr Arg Ser Pro Glu Leu Pro Val Gly  
50 55 60  
Asp Thr Gln Tyr Gly Pro Pro Val Asp Val Trp Ala Ile Gly Cys Val  
65 70 75 80  
Ser Ala Glu Leu Leu Ser Gly Lys Cys Leu Trp Trp Pro Gly Lys Ser  
85 90 95  
Asp Met Leu Asp Gln Leu Tyr Leu Ile Arg Lys  
100 105 107

<210> 1015  
<211> 70  
<212>Amino acid  
<213> Homo sapiens

<400> 1015  
Arg Gly Trp Ala Leu Asp Trp Ile Gly Ala Asp Leu Ser Leu His Leu  
1 5 10 15  
Gln Glu Glu Val Glu Thr Glu Val Ala Trp Glu Glu Cys Gly His Val  
20 25 30  
Leu Leu Ser Leu Cys Tyr Ser Ser Gln Gln Gly Gly Leu Leu Val Gly  
35 40 45  
Val Leu Arg Cys Ala His Leu Ala Pro Met Asp Ala Asn Gly Tyr Ser  
50 55 60  
Asp Pro Phe Val Arg Leu  
65 70

<210> 1016  
<211> 142  
<212>Amino acid  
<213> Homo sapiens

&lt;400&gt; 1016

```

Gly Gly Ile Leu Ala Met Glu Tyr Ala Pro Gly Gly Thr Leu Ala Glu
 1           5           10           15
Phe Ile Gln Lys Arg Cys Asn Ser Leu Leu Glu Glu Glu Thr Ile Leu
      20           25           30
His Phe Phe Val Gln Ile Leu Leu Ala Leu His His Val His Thr His
      35           40           45
Leu Ile Leu His Arg Asp Leu Lys Thr Gln Asn Ile Leu Leu Asp Lys
      50           55           60
His Arg Met Val Val Lys Ile Gly Asp Phe Gly Ile Ser Lys Ile Leu
      65           70           75           80
Ser Ser Lys Ser Lys Ala Tyr Thr Val Val Gly Thr Pro Cys Tyr Ile
      85           90           95
Ser Pro Glu Leu Cys Glu Gly Lys Pro Tyr Asn Gln Lys Ser Asp Ile
      100          105          110
Trp Ala Leu Gly Cys Val Leu Tyr Glu Leu Ala Ser Leu Lys Arg Ala
      115          120          125
Phe Glu Ala Ala Asn Leu Pro Ala Leu Val Leu Lys Ile Met
      130          135          140          142

```

&lt;210&gt; 1017

&lt;211&gt; 87

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1017

```

Val Gln Cys Gly Gly Ile His Gln Val Ser Gly Ala Val Val Val Ser
 1           5           10           15
Gly Leu Leu Gln Gly Met Met Gly Leu Leu Gly Ser Pro Gly His Val
      20           25           30
Phe Pro His Cys Gly Pro Leu Val Leu Ala Pro Ser Leu Val Val Ala
      35           40           45
Gly Leu Ser Ala His Arg Glu Val Ala Gln Phe Cys Phe Thr His Trp
      50           55           60
Gly Leu Ala Leu Leu Tyr Val Ser Pro Glu Arg Arg Gly Met Val Pro
      65           70           75           80
Ser Gly Gly Val Trp Gly Asp
      85           87

```

&lt;210&gt; 1018

&lt;211&gt; 160

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1018

```

Pro Arg Met Thr Gly Ser Thr His Ala Ser Ala Pro Ser Tyr Gly Gly
 1           5           10           15
Ser Cys Arg Asn Asn Leu Phe Tyr Arg Glu Glu Thr Tyr Thr Pro Lys
      20           25           30
Ala Glu Thr Asp Glu Met Asn Glu Val Glu Thr Ala Pro Ile Pro Glu
      35           40           45
Glu Asn His Val Trp Leu Gln Pro Arg Val Met Arg Pro Thr Lys Pro

```

50		55		60
Lys Lys Thr Ser Ala Val Asn Tyr Met Thr Gln Val Val Arg Cys Asp				
65		70		75
Thr Lys Met Lys Asp Arg Cys Ile Gly Ser Thr Cys Asn Arg Tyr Gln				80
	85		90	95
Cys Pro Ala Gly Cys Leu Asn His Lys Ala Lys Ile Phe Gly Ser Leu				
	100		105	110
Phe Tyr Glu Ser Phe Ala Ser Ile Cys Arg Ala Ala Ile His Tyr Gly				
	115		120	125
Ile Leu Asp Asp Lys Gly Gly Leu Val Asp Ile Thr Arg Asn Gly Lys				
	130		135	140
Val Pro Phe Phe Val Lys Ser Glu Arg His Gly Val Gln Ser Leu Arg				
145		150	155	160

<210> 1019  
 <211> 174  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1019

Val Pro Gln Asn Ile Ile Cys Ala Phe Phe Cys Val Pro Cys Arg Phe				
1	5		10	15
Ala Ser Thr Ile Pro Phe Trp Gly Leu Thr Leu His Leu Gln His Leu				
	20		25	30
Gly Asn Asn Val Phe Leu Leu Gln Thr Leu Phe Gly Ala Val Thr Leu				
	35		40	45
Leu Ala Asn Cys Val Ala Pro Trp Ala Leu Asn His Met Ser Arg Arg				
	50		55	60
Leu Ser Gln Met Leu Leu Met Phe Leu Leu Ala Thr Cys Leu Leu Ala				
	65		70	75
Ile Ile Phe Val Pro Gln Glu Met Gln Thr Leu Arg Val Val Leu Ala				
	85		90	95
Thr Leu Gly Val Gly Ala Ala Ser Leu Gly Ile Thr Cys Ser Thr Ala				
	100		105	110
Gln Glu Asn Glu Leu Ile Pro Ser Ile Ile Arg Gly Arg Ala Thr Gly				
	115		120	125
Ile Thr Gly Asn Phe Ala Asn Ile Gly Gly Ala Leu Ala Ser Leu Val				
	130		135	140
Met Ile Leu Ser Ile Tyr Ser Arg Pro Leu Pro Trp Ile Ile Tyr Gly				
	145		150	155
Val Phe Ala Ile Leu Ser Gly Leu Val Val Leu Leu Leu Pro				
	165		170	174

<210> 1020  
 <211> 225  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1020

Val Leu Val Ser Arg Asp His Met Lys Ser Ala Gln Gln Phe Phe Gln				
1	5		10	15
Leu Val Gly Gly Ser Ala Ser Glu Cys Asp Thr Ile Pro Gly Arg Gln				



```

      20      25      30
Cys Met Ala Ser Cys Phe Phe Leu Leu Lys Gln Phe Asp Asp Val Leu
      35      40      45
Ile Tyr Leu Asn Ser Phe Lys Ser His Phe Tyr Asn Asp Asp Ile Phe
      50      55      60
Asn Phe Asn Tyr Ala Gln Ala Lys Ala Ala Thr Gly Asn Thr Ser Glu
      65      70      75      80
Gly Glu Glu Ala Phe Leu Leu Ile Gln Ser Glu Lys Met Lys Asn Asp
      85      90      95
Tyr Ile Tyr Leu Ser Trp Leu Ala Arg Gly Tyr Ile Met Asn Lys Lys
      100      105      110
Pro Arg Leu Ala Trp Glu Leu Tyr Leu Lys Met Glu Thr Ser Gly Glu
      115      120      125
Ser Phe Ser Leu Leu Gln Leu Ile Ala Asn Asp Cys Tyr Lys Met Gly
      130      135      140
Gln Phe Tyr Tyr Ser Ala Lys Ala Phe Asp Val Leu Glu Arg Leu Asp
      145      150      155      160
Pro Asn Pro Glu Tyr Trp Glu Gly Lys Arg Gly Ala Cys Val Gly Ile
      165      170      175
Phe Gln Met Ile Ile Ala Gly Arg Glu Pro Lys Glu Thr Leu Arg Glu
      180      185      190
Val Leu His Leu Leu Arg Ser Thr Gly Asn Thr Gln Val Glu Tyr Met
      195      200      205
Ile Arg Ile Met Lys Lys Trp Ala Lys Glu Asn Arg Val Ser Ile Leu
      210      215      220
Lys
225

```

```

<210> 1021
<211> 118
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1021
Leu Lys Val Ser Asp Glu Leu Val Gln Gln Tyr Gln Ile Lys Asn Gln
 1      5      10      15
Cys Leu Ser Ala Ile Ala Ser Asp Ala Glu Gln Glu Pro Lys Ile Asp
      20      25      30
Pro Tyr Ala Phe Val Glu Gly Asp Glu Glu Phe Leu Phe Pro Asp Lys
      35      40      45
Lys Asp Arg Gln Asn Ser Glu Arg Glu Ala Gly Lys Lys His Lys Val
      50      55      60
Arg Glu Ile Thr Val His Gln Arg Val Thr Val Asp Phe Val Ala Leu
      65      70      75      80
His Ile Val Thr Leu Leu Leu Pro Gln Leu Ser His Phe Phe Cys Leu
      85      90      95
Arg Ile Glu Arg Val Ile Ile Tyr Leu Glu Lys Pro Ile Phe Ala Arg
      100      105      110
Leu Arg Trp Leu Met Pro
      115      118

```

```

<210> 1022
<211> 178
<212>Amino acid
<213> Homo sapiens

```

&lt;400&gt; 1022

```

Gly Val Pro Arg Asn Leu Pro Ser Ser Leu Glu Tyr Leu Leu Leu Ser
 1           5           10           15
Tyr Asn Arg Ile Val Lys Leu Ala Pro Glu Asp Leu Ala Asn Leu Thr
          20           25           30
Ala Leu Arg Val Leu Asp Val Gly Gly Asn Cys Arg Arg Cys Asp His
          35           40           45
Ala Pro Asn Pro Cys Met Glu Cys Pro Arg His Phe Pro Gln Leu His
          50           55           60
Pro Asp Thr Phe Ser His Leu Ser Arg Leu Glu Gly Leu Val Leu Lys
          65           70           75           80
Asp Ser Ser Leu Ser Trp Leu Asn Ala Ser Trp Phe Arg Gly Leu Gly
          85           90           95
Asn Leu Arg Val Leu Asp Leu Ser Glu Asn Phe Leu Tyr Lys Cys Ile
          100          105          110
Thr Lys Thr Lys Ala Phe Gln Gly Leu Thr Gln Leu Arg Lys Leu Asn
          115          120          125
Leu Ser Phe Asn Tyr Gln Lys Arg Val Ser Phe Ala His Leu Val Ser
          130          135          140
Gly Pro Pro Phe Leu Arg Gly Ser Leu Gly Arg Pro Leu Lys Gly Ala
          145          150          155          160
Gly Thr Trp His Gly Asn Leu Ser Phe Pro Leu His Phe Glu Trp Gly
          165          170          175
Lys Thr
          178

```

&lt;210&gt; 1023

&lt;211&gt; 146

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1023

```

Ile Leu Phe Ala Ala Leu Ile Trp Ser Ser Phe Asp Glu Asn Ile Glu
 1           5           10           15
Ala Ser Ala Gly Gly Gly Gly Ser Ser Ile Asp Ala Val Met Val
          20           25           30
Asp Ser Gly Ala Val Val Glu Gln Tyr Lys Arg Met Gln Ser Gln Glu
          35           40           45
Ser Ser Ala Lys Arg Ser Asp Glu Gln Arg Lys Met Lys Glu Gln Gln
          50           55           60
Ala Ala Glu Glu Leu Arg Glu Lys Gln Ala Ala Glu Gln Glu Arg Leu
          65           70           75           80
Lys Gln Leu Glu Lys Glu Arg Leu Ala Ala Gln Glu Gln Lys Lys Gln
          85           90           95
Ala Glu Glu Ala Ala Lys Gln Ala Glu Leu Lys Gln Lys Gln Ala Glu
          100          105          110
Glu Ala Ala Ala Lys Ala Ala Ala Asp Ala Lys Ala Lys Ala Glu Ala
          115          120          125
Asp Ala Lys Ala Ala Glu Glu Ala Ala Lys Lys Ala Ala Ala Asp Ala
          130          135          140
Lys Lys
          145 146

```

&lt;210&gt; 1024

&lt;211&gt; 39

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1024

Ala	Met	Glu	Ile	Val	His	Glu	Pro	Arg	Asp	Leu	Glu	Arg	Tyr	Met	Arg
1				5					10					15	
Glu	Ala	Val	Lys	Val	Ser	Asn	Asp	Ser	Pro	Val	Leu	Leu	Asp	Arg	Phe
		20						25					30		
Leu	Asn	Asp	Ala	Ile	Glu	Cys									
		35				39									

&lt;210&gt; 1025

&lt;211&gt; 53

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1025

Met	Leu	Ser	Pro	Gly	Tyr	Asp	Tyr	Gly	Tyr	Val	Cys	Val	Glu	Phe	Ser
1				5				10						15	
Leu	Leu	Glu	Asp	Ala	Ile	Gly	Cys	Met	Glu	Ala	Asn	Gln	Val	Ala	Leu
		20					25					30			
Tyr	Phe	Gly	Gln	Met	Met	Leu	Glu	Gly	Tyr	Ile	Phe	Leu	Tyr	Met	Gly
		35					40					45			
Arg	Glu	Gly	Phe	Lys											
	50			53											

&lt;210&gt; 1026

&lt;211&gt; 365

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1026

Pro	Arg	Val	Arg	Ser	Ser	Gly	Gly	Gln	Glu	Asp	Pro	Ala	Ser	Gln	Gln
1				5				10						15	
Trp	Ala	Arg	Pro	Arg	Phe	Thr	Gln	Pro	Ser	Lys	Met	Arg	Arg	Arg	Val
		20					25						30		
Ile	Ala	Arg	Pro	Val	Gly	Ser	Ser	Val	Arg	Leu	Lys	Cys	Val	Ala	Ser
		35				40						45			
Gly	His	Pro	Arg	Pro	Asp	Ile	Thr	Trp	Met	Lys	Asp	Asp	Gln	Ala	Leu
	50				55					60					
Thr	Arg	Pro	Glu	Ala	Ala	Glu	Pro	Arg	Lys	Lys	Lys	Trp	Thr	Leu	Ser
	65			70					75					80	
Leu	Lys	Asn	Leu	Arg	Pro	Glu	Asp	Ser	Gly	Lys	Tyr	Thr	Cys	Arg	Val
		85				90							95		
Ser	Asn	Arg	Ala	Gly	Ala	Ile	Asn	Ala	Thr	Tyr	Lys	Val	Asp	Val	Ile
		100				105						110			
Gln	Arg	Thr	Arg	Ser	Lys	Pro	Val	Leu	Thr	Gly	Thr	His	Pro	Val	Asn
	115				120							125			
Thr	Thr	Val	Asp	Phe	Gly	Gly	Thr	Thr	Ser	Phe	Gln	Cys	Lys	Val	Arg
	130				135						140				
Ser	Asp	Val	Lys	Pro	Val	Ile	Gln	Trp	Leu	Lys	Arg	Val	Glu	Tyr	Gly

```

145              150              155              160
Ala Glu Gly Arg His Asn Ser Thr Ile Asp Val Gly Gly Gln Lys Phe
              165              170              175
Val Val Leu Pro Thr Gly Asp Val Trp Ser Arg Pro Asp Gly Ser Tyr
              180              185              190
Leu Asn Lys Leu Leu Ile Thr Arg Ala Arg Gln Asp Asp Ala Gly Met
              195              200              205
Tyr Ile Cys Leu Gly Ala Asn Thr Met Gly Tyr Ser Phe Arg Ser Ala
              210              215              220
Phe Leu Thr Val Leu Pro Asp Pro Lys Pro Pro Gly Pro Pro Val Ala
225              230              235              240
Ser Ser Ser Ser Ala Thr Ser Leu Pro Trp Pro Val Val Ile Gly Ile
              245              250              255
Pro Ala Gly Ala Val Phe Ile Leu Gly Thr Leu Leu Leu Trp Leu Cys
              260              265              270
Gln Ala Gln Lys Lys Pro Cys Thr Pro Ala Pro Ala Pro Pro Leu Pro
              275              280              285
Gly His Arg Pro Pro Gly Thr Ala Arg Asp Arg Ser Gly Asp Lys Asp
              290              295              300
Leu Pro Ser Leu Ala Ala Leu Ser Ala Gly Pro Gly Val Gly Leu Cys
305              310              315              320
Glu Glu His Gly Ser Pro Ala Ala Pro Gln His Leu Leu Gly Pro Gly
              325              330              335
Pro Val Ala Gly Pro Lys Leu Tyr Pro Lys Leu Tyr Thr Asp Ile Pro
              340              345              350
His His Thr His Thr His Thr Pro His Pro Pro Ala Asn
              355              360              365

```

```

<210> 1027
<211> 30
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1027
Asn Phe His Phe Thr Gly Lys Cys Leu Phe Met Ser Gly Leu Ser Glu
 1              5              10              15
Val Gln Leu Thr His Met Asp Asp His Thr Leu Pro Gly Tyr
              20              25              30

```

```

<210> 1028
<211> 104
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1028
Ser Pro Arg Lys Arg Lys Thr Arg His Ser Thr Asn Pro Pro Leu Glu
 1              5              10              15
Cys His Val Gly Trp Val Met Asp Ser Arg Asp His Gly Pro Gly Thr
              20              25              30
Ser Ser Val Ser Thr Ser Asn Ala Ser Pro Ser Glu Gly Ala Pro Leu
              35              40              45
Ala Gly Ser Tyr Gly Cys Thr Pro His Ser Phe Pro Lys Phe Gln His
              50              55              60
Pro Ser His Glu Leu Leu Lys Glu Asn Gly Phe Thr Gln Gln Val Tyr

```

```

      65              70              75              80
His Lys Tyr Arg Arg Arg Cys Leu Ser Glu Arg Lys Arg Leu Gly Ile
      85              90              95
Gly Gln Ser Gln Glu Met Asn Thr
      100              104

```

```

<210> 1029
<211> 119
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1029
Pro Gly Ser Gly Gly Ser Ala Gly Gly Arg Asp Gly Ser Ala Tyr Gln
 1              5              10              15
Gly Ala Leu Leu Pro Arg Glu Gln Phe Ala Ala Pro Leu Gly Arg Pro
      20              25              30
Val Gly Thr Ser Tyr Ser Ala Thr Tyr Pro Ala Tyr Val Ser Pro Asp
      35              40              45
Val Ala Gln Ser Trp Thr Ala Gly Pro Phe Asp Gly Ser Val Leu His
      50              55              60
Gly Leu Pro Gly Arg Arg Pro Thr Phe Val Ser Asp Phe Leu Glu Glu
      65              70              75              80
Phe Pro Gly Glu Gly Arg Glu Cys Val Asn Cys Gly Ala Leu Ser Thr
      85              90              95
Pro Leu Trp Arg Arg Asp Gly Thr Gly His Tyr Leu Cys Asn Ala Cys
      100              105              110
Gly Leu Tyr His Lys Met Asn
      115              119

```

```

<210> 1030
<211> 171
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(171)
<223> X = any amino acid or stop code

```

```

<400> 1030
Pro Asp His Arg His Gly Ala Leu Trp Trp Trp Tyr Ser Cys Gly Val
 1              5              10              15
Leu Pro Val Thr Val Ser Arg Asn Glu Gly Asp Glu Arg Asn Gln Val
      20              25              30
Leu Thr Leu Tyr Leu Trp Ile Arg Gln Glu Trp Thr Asp Ala Tyr Leu
      35              40              45
Arg Trp Asp Pro Asn Ala Tyr Gly Gly Leu Asp Ala Ile Arg Ile Pro
      50              55              60
Ser Ser Leu Val Trp Arg Pro Asp Ile Val Leu Tyr Asn Lys Tyr Cys
      65              70              75              80
Leu Ser Ala Ala Pro Pro Leu Ser Tyr Pro Ser Leu Asp Leu Pro Leu
      85              90              95
Ala Val Gly Val Xaa Xaa Ser Pro Leu Pro Thr Thr Xaa Pro Gly Cys
      100              105              110

```

```

His Ala Ala Leu Glu Ala Phe Pro Gln Asp Pro Ser Lys Leu Pro Ser
      115                      120                      125
Thr Gln Pro Leu His Gly Thr Pro Thr Leu Gly Tyr Pro Arg Pro Ala
      130                      135                      140
Gln Ala Glu Arg Leu Leu Gly Thr Tyr Cys Val Val Gln Gly Arg Cys
145                      150                      155                      160
Leu Asn His Lys Gly Leu Ser Arg Ala His Phe
                      165                      170 171

```

```

<210> 1031
<211> 198
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1031
Tyr Ala Leu Thr Gly Ala Leu Val Ile Val Thr Gly Met Val Met Gly
 1          5          10          15
Asn Ile Ala Asp Tyr Phe Asn Leu Pro Val Ser Ser Met Ser Asn Thr
      20          25          30
Phe Thr Phe Leu Asn Ala Gly Ile Leu Ile Ser Ile Phe Leu Asn Ala
      35          40          45
Trp Leu Met Glu Ile Val Pro Leu Lys Thr Gln Leu Arg Phe Gly Phe
      50          55          60
Leu Leu Met Val Leu Ala Val Ala Gly Leu Met Phe Ser His Ser Leu
      65          70          75          80
Ala Leu Phe Ser Ala Ala Met Phe Ile Leu Gly Val Val Ser Gly Ile
      85          90          95
Thr Met Ser Ile Gly Thr Phe Leu Val Thr Gln Met Tyr Glu Gly Arg
      100          105          110
Gln Arg Gly Ser Arg Leu Leu Phe Thr Asp Ser Phe Phe Ser Met Ala
      115          120          125
Gly Met Ile Phe Pro Met Ile Ala Ala Phe Leu Leu Ala Arg Ser Ile
      130          135          140
Glu Trp Tyr Trp Val Tyr Ala Cys Ile Gly Leu Val Tyr Val Ala Ile
145          150          155          160
Phe Ile Leu Thr Phe Gly Cys Glu Phe Pro Ala Leu Cys Ser His Ala
      165          170          175
Thr Lys Leu Gly Thr Ala Ser Ser Tyr Pro Ser Leu Asp Val Val Gln
      180          185          190
Leu Arg Thr Leu Asn Ala
      195          198

```

```

<210> 1032
<211> 138
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(138)
<223> X = any amino acid or stop code

```

```

<400> 1032
Met Ala Lys Val Gly Leu Lys Thr Glu His Tyr Asp Arg Tyr Pro His

```

```

      1           5           10           15
Met Phe Ser Gly Gly Gln Arg Gln Arg Ile Ala Ile Ala Arg Gly Leu
      20           25           30
Met Leu Asp Pro Asp Val Val Ile Ala Asp Glu Pro Val Ser Ala Leu
      35           40           45
Asp Val Ser Val Arg Ala Gln Val Leu Asn Leu Met Met Asp Leu Gln
      50           55           60
Gln Glu Leu Gly Leu Ser Tyr Val Phe Ile Ser His Asp Leu Ser Val
      65           70           75           80
Val Glu His Ile Ala Asp Glu Val Met Val Met Tyr Leu Gly Arg Cys
      85           90           95
Val Glu Lys Gly Thr Lys Asp Gln Ile Phe Asn Asn Pro Arg His Pro
      100          105          110
Tyr Thr Gln Ala Leu Leu Ser Ala Thr Pro Arg Leu Asn Pro Asp Asp
      115          120          125
Arg Arg Glu Arg Ile Lys Leu Ser Xaa *
      130          135          137

```

<210> 1033  
 <211> 141  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 1033
Ser Ala Thr Leu Glu Arg Val Leu Asn His Pro Asp Glu Thr Gln Ala
      1           5           10           15
Arg Arg Leu Met Thr Leu Glu Asp Ile Val Ser Gly Tyr Ser Asn Val
      20           25           30
Leu Ile Ser Leu Ala Asp Ser Gln Gly Lys Thr Val Tyr His Ser Pro
      35           40           45
Gly Ala Pro Asp Ile Arg Glu Phe Thr Arg Asp Ala Ile Pro Asp Lys
      50           55           60
Asp Ala Gln Gly Gly Glu Val Tyr Leu Leu Ser Gly Pro Thr Met Met
      65           70           75           80
Met Pro Gly His Gly His Gly His Met Glu His Ser Asn Trp Arg Met
      85           90           95
Ile Asn Leu Pro Val Gly Pro Leu Val Asp Gly Lys Pro Ile Tyr Thr
      100          105          110
Leu Tyr Ile Ala Leu Ser Ile Asp Phe His Leu His Tyr Ile Asn Asp
      115          120          125
Leu Met Asn Lys Leu Ile Met Thr Ala Ser Val Ile Ile
      130          135          140 141

```

<210> 1034  
 <211> 112  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 1034
Val Leu Ala Tyr Pro Gly Ile Lys Val Ser Thr Ala Glu Ala Arg Ala
      1           5           10           15
Ile Leu Pro Ala Gln Tyr Arg Arg Gln Asp Cys Ile Ala His Gly Arg
      20           25           30
His Leu Ala Gly Phe Ile His Ala Cys Tyr Ser Arg Gln Pro Glu Leu

```

```

          35          40          45
Ala Ala Lys Leu Met Lys Asp Val Ile Ala Glu Pro Tyr Arg Glu Arg
  50          55          60
Leu Leu Pro Gly Phe Arg Gln Ala Arg Gln Ala Val Ala Glu Ile Gly
  65          70          75          80
Ala Val Ala Ser Gly Ile Ser Gly Ser Gly Pro Thr Leu Phe Ala Leu
          85          90          95
Cys Asp Lys Pro Glu Thr Ala Gln Arg Val Ala Asp Trp Leu Gly Lys
          100          105          110          112

```

<210> 1035  
 <211> 92  
 <212>Amino acid  
 <213> Homo sapiens

```

          <400> 1035
Gly Gln Gln Gln Arg Val Ala Leu Ala Arg Ala Leu Ile Leu Lys Pro
  1          5          10          15
Lys Val Leu Leu Phe Asp Glu Pro Leu Ser Asn Leu Asp Ala Asn Leu
          20          25          30
Arg Arg Ser Met Arg Asp Lys Ile Arg Glu Leu Gln Lys Gln Phe Asp
          35          40          45
Ile Thr Ser Leu Tyr Val Thr His Asp Gln Ser Glu Ala Phe Ala Val
          50          55          60
Ser Asp Thr Val Leu Val Met Asn Lys Gly His Ile Met Gln Ile Gly
          65          70          75          80
Ser Pro Gln Asp Leu Arg Val Arg Arg Leu Asn Trp
          85          90          92

```

<210> 1036  
 <211> 51  
 <212>Amino acid  
 <213> Homo sapiens

```

          <400> 1036
Ala Val His Tyr Leu Glu Arg Val Arg Ile Ala Glu His Ala His Lys
  1          5          10          15
Phe Pro Gly Gln Ile Ser Gly Gly Gln Gln Gln Arg Val Ala Ile Ala
          20          25          30
Arg Ser Leu Cys Met Lys Pro Lys Ile Met Leu Phe Asp Glu Pro Thr
          35          40          45
Ser Ala Leu
          50  51

```

<210> 1037  
 <211> 72  
 <212>Amino acid  
 <213> Homo sapiens



&lt;400&gt; 1037

```

Ala Pro Tyr Asp Ala Glu Asn Tyr Phe Asp Tyr Asp Asn Leu Asn Asn
 1          5          10          15
Gly Pro Ser Leu Gln His Trp Phe Gly Val Asp Ser Leu Gly Arg Asp
          20          25          30
Ile Phe Ser Arg Val Leu Val Gly Ala Gln Ile Ser Leu Ala Ala Gly
          35          40          45
Val Phe Ala Val Phe Ile Gly Ala Ala Ile Gly Thr Leu Leu Gly Leu
          50          55          60
Leu Ala Gly Tyr Tyr Glu Gly Trp
 65          70          72

```

&lt;210&gt; 1038

&lt;211&gt; 188

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1038

```

Val Phe Cys Leu Ile Ala Asp Leu Asp Pro Ile Asp Glu Leu Val Asp
 1          5          10          15
Phe Pro Ile Val Tyr Ala Ser Ala Leu Asn Gly Ile Ala Gly Leu Asp
          20          25          30
His Glu Asp Met Ala Glu Asp Met Thr Pro Leu Tyr Gln Ala Ile Val
          35          40          45
Asp His Val Pro Ala Pro Asp Val Asp Leu Asp Gly Pro Phe Gln Met
          50          55          60
Gln Ile Ser Gln Leu Asp Tyr Asn Ser Tyr Val Gly Val Ile Gly Ile
          65          70          75          80
Gly Arg Ile Lys Arg Gly Lys Val Lys Pro Asn Gln Gln Val Thr Ile
          85          90          95
Ile Asp Ser Glu Gly Lys Thr Arg Asn Ala Lys Val Gly Lys Val Leu
          100          105          110
Gly His Leu Gly Leu Glu Arg Ile Glu Thr Asp Leu Ala Glu Ala Gly
          115          120          125
Asp Ile Val Ala Ile Thr Gly Leu Gly Glu Leu Asn Ile Ser Asp Thr
          130          135          140
Val Cys Asp Thr Gln Asn Val Glu Ala Leu Pro Ala Leu Ser Val Asp
          145          150          155          160
Glu Pro Thr Val Ser Met Phe Phe Cys Val Asn Thr Ser Pro Phe Cys
          165          170          175
Gly Lys Glu Gly Lys Phe Val Thr Ser Arg Gln Ile
          180          185          188

```

&lt;210&gt; 1039

&lt;211&gt; 122

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1039

```

Gln Gly Thr Arg Ala Glu Ser Gln Gly Ser Ser Lys Asp Lys Thr Arg
 1          5          10          15
Leu Ala Phe Ala Gly Leu Lys Phe Gly Asp Tyr Gly Ser Ile Asp Tyr

```

```

      20      25      30
Gly Arg Asn Tyr Gly Val Ala Tyr Asp Ile Gly Ala Trp Thr Asp Val
      35      40      45
Leu Pro Glu Phe Gly Gly Asp Thr Trp Thr Gln Thr Asp Val Phe Met
      50      55      60
Thr Gln Arg Ala Thr Gly Val Ala Thr Tyr Arg Asn Asn Asp Phe Phe
      65      70      75      80
Gly Leu Val Asp Gly Leu Asn Phe Ala Ala Gln Tyr Gln Gly Lys Asn
      85      90      95
Asp Arg Ser Asp Phe Asp Asn Tyr Thr Glu Gly Asn Gly His Gly Phe
      100      105      110
Gly Phe Ser Ala Thr Tyr Glu Tyr Glu Gly
      115      120      122

```

```

<210> 1040
<211> 65
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1040
Asp Thr Tyr Ser Val Ser Ile Pro Leu Gly Ala Thr Ile Asn Met Ala
 1      5      10      15
Gly Ala Ala Ile Thr Ile Thr Val Leu Thr Leu Ala Ala Val Asn Thr
      20      25      30
Leu Gly Ile Pro Val Asp Leu Pro Thr Ala Leu Leu Leu Ser Val Val
      35      40      45
Ala Ser Leu Cys Ala Cys Gly Ala Ser Gly Val Ala Gly Gly Ser Leu
      50      55      60
Leu
65

```

```

<210> 1041
<211> 46
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1041
Ala Asn Ala Gln Gln Gly Leu Pro Ser Gly Ile Thr Leu Lys Leu Asn
 1      5      10      15
Asn Leu Val Asp Lys Gly Leu Val Asp Arg Leu Tyr Ala Ala Ser Ser
      20      25      30
Ser Gly Val Pro Val Asn Leu Leu Val Arg Gly Thr Cys Ser
      35      40      45      46

```

```

<210> 1042
<211> 146
<212>Amino acid
<213> Homo sapiens

```

<400> 1042  
 Ala Arg Met Thr Leu Ile Pro Gly Thr His Leu Leu Glu Asn Ile His  
 1 5 10 15  
 Asn Ile Trp Val Asn Gly Val Gly Thr Asn Ser Ala Pro Phe Trp Arg  
 20 25 30  
 Met Leu Leu Asn Ser Phe Val Met Ala Phe Ser Ile Thr Leu Gly Lys  
 35 40 45  
 Ile Thr Val Ser Met Leu Ser Ala Phe Ala Ile Val Trp Phe Arg Phe  
 50 55 60  
 Pro Leu Arg Asn Leu Phe Phe Trp Met Ile Phe Ile Thr Leu Met Leu  
 65 70 75 80  
 Pro Val Glu Val Arg Ile Phe Pro Thr Val Glu Val Ile Ala Asn Leu  
 85 90 95  
 Gln Met Leu Asp Ser Tyr Ala Gly Leu Thr Leu Pro Leu Met Ala Ser  
 100 105 110  
 Ala Thr Ala Thr Phe Leu Phe Arg Lys Leu Asn Met Ser Gly Pro Asp  
 115 120 125  
 Lys Val Val Pro Ala Ala Arg Ile Ser Gly Tyr Gly Pro Arg Val Arg  
 130 135 140  
 Lys Gln  
 145 146

<210> 1043  
 <211> 133  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1043  
 Cys Ala Lys Cys Leu Arg Asp Ala Asp Glu Cys Pro Ser Gly Ala Phe  
 1 5 10 15  
 Glu Arg Ile Gly Arg Asp Ile Ser Leu Asp Ala Leu Glu Arg Glu Val  
 20 25 30  
 Met Lys Asp Asp Ile Phe Phe Arg Thr Ser Gly Gly Gly Val Thr Leu  
 35 40 45  
 Ser Gly Gly Glu Val Leu Met Gln Ala Glu Phe Ala Thr Arg Phe Leu  
 50 55 60  
 Gln Arg Leu Arg Leu Trp Gly Val Ser Cys Ala Ile Glu Thr Ala Gly  
 65 70 75 80  
 Asp Ala Pro Ala Ser Lys Leu Leu Pro Leu Ala Lys Leu Cys Asp Glu  
 85 90 95  
 Val Leu Phe Asp Leu Lys Ile Met Asp Ala Thr Gln Ala Arg Asp Val  
 100 105 110  
 Val Lys Met Asn Leu Pro Arg Val Leu Glu Asn Leu Arg Leu Leu Val  
 115 120 125  
 Ser Glu Gly Val Asn  
 130 133

<210> 1044  
 <211> 115  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1044  
 Tyr Leu Leu Leu Phe Val Cys Phe Leu Val Met Ser Leu Leu Val Gly

```

      1           5           10           15
Leu Val Tyr Lys Phe Thr Ala Glu Arg Ala Gly Lys Gln Ser Leu Asp
      20           25           30
Asp Leu Met Asn Ser Ser Leu Tyr Leu Met Arg Ser Glu Leu Arg Glu
      35           40           45
Ile Pro Pro His Asp Trp Gly Lys Thr Leu Lys Glu Met Asp Leu Asn
      50           55           60
Leu Ser Phe Asp Leu Arg Val Glu Pro Leu Ser Lys Tyr His Leu Asp
      65           70           75           80
Asp Ile Ser Met His Arg Leu Arg Gly Gly Glu Ile Val Ala Leu Asp
      85           90           95
Asp Gln Tyr Thr Phe Leu Gln Arg Ile Pro Arg Ser His Tyr Val Leu
      100          105          110
Ala Val Gly
      115

```

```

<210> 1045
<211> 69
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1045
Val Glu Leu Phe Leu Ser Asp Glu Gly Asp Asp Val Val Ile Glu Val
      1           5           10           15
Ala Asp Gln Gly Cys Gly Val Pro Glu Ser Leu Arg Asp Lys Ile Phe
      20           25           30
Glu Gln Gly Val Ser Thr Arg Ala Asp Glu Pro Gly Glu His Gly Ile
      35           40           45
Gly Leu Tyr Leu Ile Ala Ser Tyr Val Thr Arg Cys Gly Gly Val Ile
      50           55           60
Thr Leu Glu Asp Asn
      65           69

```

```

<210> 1046
<211> 69
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1046
Asp Ala Ile Ile Ala Pro Asp Ala Asn Ala Leu Pro Ala Ala Ala Gln
      1           5           10           15
Ala Ala Glu Asn Leu Lys Asn Asp Lys Val Ala Ile Val Gly Phe Ser
      20           25           30
Thr Pro Asn Val Met Arg Pro Tyr Val Glu Arg Gly Thr Val Lys Glu
      35           40           45
Phe Gly Leu Trp Asp Val Val Gln Gln Gly Lys Ile Ser Val Tyr Val
      50           55           60
Ala Asp Ala Leu Gln
      65           69

```

```

<210> 1047
<211> 43
<212>Amino acid

```

&lt;213&gt; Homo sapiens

&lt;400&gt; 1047

```

Tyr Ile Val Val Thr Gly Lys Thr His Cys Gly Thr Pro Leu Thr Thr
 1           5           10           15
Val Thr Gly Asp Ala Thr Gln Ser Gly Tyr Leu Thr Leu Asn Leu Pro
          20           25           30
Glu Met Trp Glu Val Ser Gly Tyr Asn Arg Val
      35           40           43

```

&lt;210&gt; 1048

&lt;211&gt; 77

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(77)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1048

```

Xaa Glu Gly Val Glu Pro Asp Ile Asn Ala Ser Lys Thr Arg Gln Gln
 1           5           10           15
Leu Asn Asp Val Ala Gly Lys Met Lys Ile Ile Glu Ala Arg Leu Ser
          20           25           30
Ala Leu Thr Asn Asn Gln Thr Lys Ser Leu Lys Leu Asn Pro Val Ala
      35           40           45
Leu Pro Lys Val Ala Ser Gln Leu Leu Asp Glu Leu Gly Tyr Ser Leu
      50           55           60
Leu Ala Arg Arg Ala Asp Leu Gln Ser Ala His Xaa *
      65           70           75   76

```

&lt;210&gt; 1049

&lt;211&gt; 79

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1049

```

Glu Asn Ile Ala Glu Glu Tyr Ala Thr Lys Arg Tyr Arg Ser Asn Val
 1           5           10           15
Ile Asn Trp Gly Met Leu Pro Leu Gln Met Ala Glu Val Pro Thr Phe
          20           25           30
Glu Val Gly Asp Tyr Ile Tyr Ile Pro Gly Ile Lys Ala Ala Leu Asp
      35           40           45
Asn Pro Gly Thr Thr Phe Lys Gly Tyr Val Ile His Glu Asp Ala Pro
      50           55           60
Val Thr Glu Ile Thr Leu Tyr Met Glu Ser Gln Glu Ala Arg Thr
      65           70           75           79

```

<210> 1050  
 <211> 99  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1050  
 Leu Gln Thr Glu Ile Gly Ser Met Val Tyr Ala Val Lys Pro Gly Asp  
   1                  5                  10                  15  
 Gly Ser Ala Arg Glu Gln Ala Ala Ser Cys Gln Arg Val Ile Gly Gly  
                   20                  25                  30  
 Leu Ala Asn Ile Ala Glu Glu Tyr Ala Thr Lys Arg Tyr Arg Ser Asn  
           35                  40                  45  
 Val Ile Asn Trp Gly Met Leu Pro Leu Gln Met Ala Glu Val Pro Thr  
       50                  55                  60  
 Phe Glu Val Gly Asp Tyr Ile Tyr Ile Leu Gly Phe Lys Ala Ala Lys  
   65                  70                  75                  80  
 Tyr Ser Pro Gly Thr Ala Phe Thr Val Tyr Ala Ile Ser Gly Tyr Gly  
                   85                  90                  95  
 Pro Arg Ile  
       99

<210> 1051  
 <211> 114  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1051  
 Thr Leu Glu Asp Leu Leu Met Ala Leu Asp Gly Glu Gln His Leu Gln  
   1                  5                  10                  15  
 Gln Gln Val Ser Glu Lys Val Leu Ala Asp Asn Val Leu Ile Ala Pro  
                   20                  25                  30  
 Gly Ser Val Lys Pro Asp Ala Thr Phe Trp Ser Ala Leu Ile Gln Asp  
       35                  40                  45  
 Arg Tyr Asn Val Met Thr Cys Ile Glu Lys Asp Ala Cys Val Leu Val  
       50                  55                  60  
 Glu Gln Asp Leu Asn Ser Asp Gly Gln Ala Glu Arg Ile Leu Phe Ala  
   65                  70                  75                  80  
 Phe Asn Asp Asp Arg Val Ile Val Tyr Gly Phe Asp Ser Asp Arg Lys  
                   85                  90                  95  
 Glu Trp Asp Ala Leu Asp Met Ser Leu Leu Pro Asn Glu Ile Thr Lys  
                   100                  105                  110  
 Glu Lys  
       114

<210> 1052  
 <211> 210  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1052

Glu Ser Asn Ser Arg Cys Arg Lys Met Pro Gly Glu Arg Cys Arg Gly  
 1 5 10 15  
 Gly Pro Ala Arg Leu Ser Leu Leu Leu Asp Leu Pro Thr Arg Pro Leu  
 20 25 30  
 Pro His Pro Arg Gln Val Ile Asp Phe Gly Ser Ala Ser Ile Phe Ser  
 35 40 45  
 Glu Val Arg Tyr Val Lys Glu Pro Tyr Ile Gln Ser Arg Phe Tyr Arg  
 50 55 60  
 Ala Pro Glu Ile Leu Leu Gly Leu Pro Phe Cys Glu Lys Val Asp Val  
 65 70 75 80  
 Trp Ser Leu Gly Cys Val Met Asp Glu Leu His Leu Gly Trp Pro Leu  
 85 90 95  
 Tyr Pro Gly Asn Asn Glu Tyr Asp Gln Val Arg Tyr Ile Cys Glu Thr  
 100 105 110  
 Gln Gly Leu Pro Lys Pro His Leu Leu His Ala Ala Cys Lys Ala His  
 115 120 125  
 His Phe Phe Lys Arg Asn Pro His Pro Asp Ala Ala Asn Pro Trp Gln  
 130 135 140  
 Leu Lys Ser Ser Ala Asp Tyr Leu Ala Glu Thr Lys Val Arg Pro Leu  
 145 150 155 160  
 Glu Arg Arg Lys Tyr Met Leu Lys Ser Leu Asp Gln Ile Glu Thr Val  
 165 170 175  
 Asn Gly Gly Ser Val Ala Ser Arg Leu Thr Phe Pro Asp Arg Glu Ala  
 180 185 190  
 Leu Ala Glu His Ala Asp Leu Lys Ser Met Val Glu Leu Met Lys Arg  
 195 200 205  
 Leu Leu  
 210

<210> 1053  
 <211> 100  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1053  
 Arg Leu Val Lys Lys Arg Val Glu Cys Arg Gln Cys Gly Lys Ala Gly  
 1 5 10 15  
 Arg Asn Gln Ser Thr Leu Lys Thr His Met Arg Ser His Thr Gly Glu  
 20 25 30  
 Lys Pro Tyr Glu Cys Asp His Cys Gly Lys Ala Phe Ser Ile Gly Ser  
 35 40 45  
 Asn Leu Asn Val His Arg Arg Ile His Thr Gly Glu Lys Pro Tyr Glu  
 50 55 60  
 Cys Leu Val Cys Gly Glu Ala Phe Ser Asp His Ser Ser Leu Arg Ser  
 65 70 75 80  
 His Val Lys Thr His Arg Gly Glu Lys Leu Phe Val Ser Ser Val Trp  
 85 90 95  
 Lys Arg Leu Gln  
 100

<210> 1054  
 <211> 194  
 <212> Amino acid  
 <213> Homo sapiens

&lt;400&gt; 1054

```

Cys Gly Pro Gly Phe Ser Leu Ser Phe Phe Phe Leu Arg Trp Ser Phe
 1           5           10           15
Ala Leu Val Ala Gln Ala Gly Val Gln Trp His Asp Leu Gly Ser Leu
 20           25           30
Gln Pro Pro Ala Pro Gly Phe Lys Arg Phe Ser Ser Leu Ser Leu Leu
 35           40           45
Ser Arg Trp Asp Tyr Arg His Ala His Ala Arg Leu Ile Phe Val Phe
 50           55           60
Leu Val Glu Met Gly Phe Leu His Val Gly Gln Ala Gly Leu Glu Leu
 65           70           75           80
Pro Thr Ser Gly Asp Pro Pro Thr Ser Ala Ser Gln Ser Ala Arg Ile
 85           90           95
Thr Gly Val Thr Thr Pro Leu Gly Thr Phe Phe Phe Phe Leu Arg Trp
100           105           110
Ser Phe Ala Leu Val Ala Gln Ala Gly Gly Gln Cys Leu Asp Leu Gly
115           120           125
Ser Leu Gln Leu Pro Pro Pro Gly Phe Lys Arg Leu Val Cys His Phe
130           135           140
Gln Thr Pro Gln Lys His Arg Cys Ser Cys Gln Ala Pro Gly Asp Cys
145           150           155           160
Leu Gln Glu Ser Phe Val Met Thr Gly Cys Val Leu Arg Thr Val Ser
165           170           175
Glu Ser Val Gln Arg Ala Asn Ala Gly Ala Gly Ala Glu Thr Val Gln
180           185           190
Gly Leu
194

```

&lt;210&gt; 1055

&lt;211&gt; 351

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(351)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1055

```

Met Gly Asn Ala Ala Ala Ala Lys Lys Gly Ser Glu Gln Glu Ser Val
 1           5           10           15
Lys Glu Phe Leu Ala Lys Ala Lys Glu Asp Phe Leu Lys Lys Trp Glu
 20           25           30
Ser Pro Ala Gln Asn Thr Ala His Leu Asp Gln Phe Glu Arg Ile Lys
 35           40           45
Thr Leu Gly Thr Gly Ser Phe Gly Arg Val Met Leu Val Lys His Lys
 50           55           60
Glu Thr Gly Asn His Tyr Ala Met Lys Ile Leu Asp Xaa Gln Lys Val
 65           70           75           80
Gly Lys Leu Lys Gln Ile Glu His Thr Leu Asn Glu Lys Arg Ile Leu
 85           90           95
Gln Ala Val Asn Phe Pro Phe Leu Val Lys Leu Glu Phe Ser Phe Lys
100           105           110
Asp Asn Ser Asn Leu Tyr Met Val Met Glu Tyr Val Pro Gly Gly Glu
115           120           125
Met Phe Ser His Leu Arg Arg Ile Gly Arg Phe Ser Glu Pro His Ala
130           135           140
Arg Phe Tyr Ala Ala Gln Ile Val Leu Thr Phe Glu Tyr Leu His Ser

```



```

145          150          155          160
Leu Asp Leu Ile Tyr Arg Asp Leu Lys Pro Glu Asn Leu Leu Ile Asp
          165          170          175
Gln Gln Gly Tyr Ile Gln Val Thr Asp Phe Gly Phe Ala Lys Arg Val
          180          185          190
Lys Gly Arg Thr Trp Thr Leu Cys Gly Thr Pro Glu Tyr Leu Ala Pro
          195          200          205
Glu Ile Ile Leu Ser Lys Gly Tyr Asn Lys Ala Val Asp Trp Trp Ala
          210          215          220
Leu Gly Val Leu Ile Tyr Glu Met Ala Ala Gly Tyr Pro Pro Phe Phe
225          230          235          240
Ala Asp Gln Pro Ile Gln Ile Tyr Glu Lys Ile Val Ser Gly Lys Val
          245          250          255
Arg Phe Pro Ser His Phe Ser Ser Asp Leu Lys Asp Leu Leu Arg Asn
          260          265          270
Leu Leu Gln Val Asp Leu Thr Lys Arg Phe Gly Asn Leu Lys Asn Gly
          275          280          285
Val Asn Asp Ile Lys Asn His Lys Trp Phe Ala Thr Thr Asp Trp Ile
          290          295          300
Ala Ile Tyr Gln Arg Lys Val Glu Ala Pro Phe Ile Pro Lys Phe Lys
305          310          315          320
Gly Pro Gly Asp Thr Ser Asn Phe Asp Asp Tyr Glu Glu Glu Glu Ile
          325          330          335
Arg Val Ser Ile Asn Glu Lys Phe Gly Lys Glu Phe Ser Glu Phe
          340          345          350 351

```

&lt;210&gt; 1056

&lt;211&gt; 136

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(136)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1056

```

Ser Ser Ser Arg Ser Ser His Gly Asp Ser Pro Pro His Ser Gln Thr
1          5          10          15
Pro Cys Asp Thr Asn Arg Gly Leu Asp Thr Lys His Xaa Asp Ser Gln
          20          25          30
Ser Ile Glu Glu Lys Asp Ser Ser Gln Ser Glu Xaa Asn Arg Ile Glu
          35          40          45
Arg Arg Lys Glu Val Glu Arg Ile Leu Gln Thr Asn Ser Asp Tyr Met
          50          55          60
Xaa His Trp Ser Asn Xaa Pro Glu Asn Ile Leu Pro Lys Lys Phe Phe
65          70          75          80
Ser Lys His Gln Lys Cys Thr Ala Thr Leu Ser Met Arg Asn Thr Ser
          85          90          95
Ile Met Lys Lys Glu Gly Leu Phe Xaa Ala Gln Phe Pro Ser Leu Leu
          100          105          110
Leu Ser His Leu Pro Ala Val Gly Leu Gly Ile Tyr Thr Gly Thr His
          115          120          125
Leu Thr Thr Ser Thr Ser Thr Phe
130          135 136

```

&lt;210&gt; 1057

&lt;211&gt; 79

<212>Amino acid  
 <213> Homo sapiens  
 <220>  
 <221> misc\_feature  
 <222> (1)...(79)  
 <223> X = any amino acid or stop code

<400> 1057  
 Thr Phe His Ser Ser Leu Glu Lys Asn Ile Leu Gln Pro Cys Arg Xaa  
 1 5 10 15  
 Arg Arg Ala Ile Cys Leu Pro Leu Leu Leu Xaa Pro Ser Val Pro Leu  
 20 25 30  
 Leu Ala Pro Gln Tyr Phe Ser Asp Leu Arg Asn Ser Ile Val Asn Ser  
 35 40 45  
 Gln Pro Pro Glu Lys Gln Gln Ala Met His Leu Cys Phe Glu Asn Leu  
 50 55 60  
 Met Glu Gly Ile Glu Arg Asn Leu Leu Thr Lys Asn Arg Asp Arg  
 65 70 75 79

<210> 1058  
 <211> 458  
 <212>Amino acid  
 <213> Homo sapiens  
 <220>  
 <221> misc\_feature  
 <222> (1)...(458)  
 <223> X = any amino acid or stop code

<400> 1058  
 Gly Thr Ser Gly Val Gln Gln Glu Ile Ser Arg Leu Thr Asn Glu Asn  
 1 5 10 15  
 Leu Asp Leu Lys Glu Leu Val Glu Lys Leu Glu Lys Asn Glu Arg Lys  
 20 25 30  
 Leu Lys Lys Gln Leu Lys Ile Tyr Met Lys Lys Ala Gln Asp Leu Glu  
 35 40 45  
 Ala Ala Gln Ala Leu Ala Gln Ser Glu Arg Lys Arg His Glu Leu Asn  
 50 55 60  
 Arg Gln Val Thr Val Gln Arg Lys Glu Lys Asp Phe Gln Gly Met Leu  
 65 70 75 80  
 Glu Tyr His Lys Lys Glu Asp Glu Ala Leu Leu Ile Arg Asn Leu Val Thr  
 85 90 95  
 Asp Leu Lys Pro Gln Met Leu Ser Gly Thr Val Pro Cys Leu Pro Ala  
 100 105 110  
 Tyr Ile Leu Tyr Met Cys Ile Arg His Ala Asp Tyr Thr Asn Asp Asp  
 115 120 125  
 Leu Lys Val His Ser Leu Leu Thr Ser Thr Ile Asn Gly Ile Lys Lys  
 130 135 140  
 Val Leu Lys Lys His Asn Asp Asp Phe Glu Met Thr Ser Phe Trp Leu  
 145 150 155 160  
 Ser Asn Thr Cys Arg Leu Leu His Cys Leu Lys Gln Tyr Ser Gly Asp  
 165 170 175  
 Glu Gly Phe Met Thr Gln Asn Thr Ala Lys Gln Asn Glu His Cys Leu  
 180 185 190

```

Lys Asn Phe Asp Leu Thr Glu Tyr Arg Gln Val Leu Ser Asp Leu Ser
    195                200                205
Ile Gln Ile Tyr Gln Gln Leu Ile Lys Ile Ala Glu Gly Val Leu Gln
    210                215                220
Pro Met Ile Val Ser Ala Met Leu Glu Asn Xaa Ser Ile Gln Gly Leu
    225                230                235                240
Ser Gly Val Lys Pro Thr Gly Ser Gln Lys His Ser Ser Ser Met Ala
    245                250                255
Asp Glu Asp Asn Ser Tyr Arg Leu Glu Ala Ile Ile Arg Gln Met Asn
    260                265                270
Ala Phe His Thr Val Met Cys Asp Gln Gly Leu Asp Pro Glu Ile Ile
    275                280                285
Leu Gln Val Phe Lys Gln Leu Phe Tyr Met Ile Asn Ala Val Thr Leu
    290                295                300
Asn Asp Leu Leu Leu Arg Lys Asp Val Cys Ser Trp Ser Thr Gly Met
    305                310                315                320
Gln Leu Arg Tyr Asn Ile Ser Gln Leu Glu Glu Trp Leu Arg Gly Arg
    325                330                335
Asn Leu His Gln Ser Gly Ala Val Gln Thr Met Glu Pro Leu Ile Gln
    340                345                350
Ala Ala Gln Leu Leu Gln Leu Lys Lys Lys Thr Gln Glu Asp Ala Glu
    355                360                365
Ala Ile Cys Ser Leu Cys Thr Ser Leu Ser Thr Gln Gln Ile Val Lys
    370                375                380
Ile Leu Asn Leu Tyr Thr Pro Leu Asn Glu Phe Glu Glu Arg Val Thr
    385                390                395                400
Val Ala Phe Ile Arg Thr Ile Gln Ala Gln Leu Gln Glu Arg Asn Asp
    405                410                415
Pro Gln Gln Leu Leu Leu Asp Ala Lys His Met Phe Pro Val Leu Phe
    420                425                430
Pro Phe Asn Pro Ser Ser Leu Thr Met Asp Ser Ile His Ile Pro Ala
    435                440                445
Cys Leu Asn Leu Glu Phe Leu Asn Glu Val
    450                455                458

```

&lt;210&gt; 1059

&lt;211&gt; 82

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(82)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1059

```

His Glu Glu Asn Thr Ile Leu Lys Ala Ala Glu Val Gln Val Pro Pro
  1          5          10          15
Lys Xaa Val Val Thr Pro Glu Ala Lys Ala Phe Ile Xaa Arg Cys Leu
    20          25          30
Ala Tyr Gln Lys Glu Asp Cys Ile Asp Ala Gln Gln Leu Ala Cys Asp
    35          40          45
Pro Tyr Leu Leu His Tyr Ile Gln Lys Leu Val Phe Val Ser Ser Pro
    50          55          60
Ala Gly Ala Ala Ile Ala Ser Thr Phe Gly Val Ser Asn Ser Cys Ser
    65          70          75          80
Ser Asn
    82

```

<210> 1060  
 <211> 277  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1060  
 Gly Thr Thr Asp Glu Ile Met Thr Arg Trp Ala Arg Val Ser Thr Thr  
 1 5 10 15  
 Tyr Asn Lys Arg Pro Leu Pro Ala Thr Ser Trp Glu Asp Met Lys Lys  
 20 25 30  
 Gly Ser Phe Glu Gly Thr Ser Gln Asn Leu Pro Lys Arg Lys Gln Leu  
 35 40 45  
 Glu Ala Asn Arg Leu Ser Leu Lys Asn Asp Ala Pro Gln Ala Lys His  
 50 55 60  
 Lys Lys Asn Lys Lys Lys Lys Glu Tyr Leu Asn Glu Asp Val Asn Gly  
 65 70 75 80  
 Phe Met Glu Tyr Leu Arg Gln Asn Ser Gln Met Val His Asn Gly Gln  
 85 90 95  
 Ile Ile Ala Thr Asp Ser Glu Glu Val Arg Glu Glu Ile Ala Val Ala  
 100 105 110  
 Leu Lys Lys Asp Ser Arg Arg Glu Gly Arg Arg Leu Lys Arg Gln Ala  
 115 120 125  
 Ala Lys Lys Asn Ala Met Val Cys Phe His Cys Arg Lys Pro Gly His  
 130 135 140  
 Gly Ile Ala Asp Cys Pro Ala Ala Leu Glu Asn Gln Asp Met Gly Thr  
 145 150 155 160  
 Gly Ile Cys Tyr Arg Cys Gly Ser Thr Glu His Glu Ile Thr Lys Cys  
 165 170 175  
 Lys Ala Lys Val Asp Pro Ala Leu Gly Glu Phe Pro Phe Ala Lys Cys  
 180 185 190  
 Phe Val Cys Gly Glu Met Gly His Leu Ser Arg Ser Cys Pro Asp Asn  
 195 200 205  
 Pro Lys Gly Leu Tyr Ala Asp Gly Gly Gly Cys Lys Leu Cys Gly Ser  
 210 215 220  
 Val Glu His Leu Lys Lys Asp Cys Pro Glu Ser Gln Asn Ser Glu Arg  
 225 230 235 240  
 Met Val Thr Val Gly Arg Trp Ala Lys Gly Met Ser Ala Asp Tyr Glu  
 245 250 255  
 Glu Ile Leu Asp Val Pro Lys Pro Gln Lys Pro Lys Thr Lys Ile Pro  
 260 265 270  
 Lys Val Val Asn Phe  
 275 277

<210> 1061  
 <211> 95  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(95)  
 <223> X = any amino acid or stop code

<400> 1061

```

Asp His Val Arg Lys Ser Leu Leu Lys Asn Arg Ala Glu Asn Ile Val
 1           5           10           15
Asn Ile Phe Lys Cys Asn Val Val Ser Leu Pro Asn Leu Pro Ala Phe
           20           25           30
Gly Gln Ala Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala
           35           40           45
Glu Val Gly Gly Ser Xaa Gly Gln Glu Ile Glu Thr Ile Leu Ala Asn
           50           55           60
Ala Val Lys Ser Pro Phe Leu Leu Lys Ile Gln Lys Lys Lys Ile Ser
           65           70           75           80
Arg Ala Trp Trp Arg Ala Pro Val Ser Pro Arg Tyr Ser Gly Gly
           85           90           95

```

&lt;210&gt; 1062

&lt;211&gt; 259

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(259)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1062

```

Ser Asp Ala Trp Ala Asp Ala Trp Ala Arg Ser Leu Ser Val Ser Pro
 1           5           10           15
Ser Ser Tyr Pro Glu Leu His Thr Glu Val Pro Leu Ser Val Leu Ile
           20           25           30
Leu Gly Leu Leu Val Val Phe Ile Leu Ser Val Cys Phe Gly Ala Gly
           35           40           45
Leu Phe Val Phe Val Leu Lys Arg Arg Lys Gly Val Pro Ser Val Pro
           50           55           60
Arg Asn Thr Asn Asn Leu Asp Val Ser Ser Phe Gln Leu Gln Tyr Gly
           65           70           75           80
Ser Tyr Asn Thr Glu Thr His Asp Lys Thr Asp Gly His Val Tyr Asn
           85           90           95
Tyr Ile Pro Pro Pro Val Val Gln Met Cys Gln Asn Pro Ile Tyr Met
           100           105           110
Ala Gly Arg Glu Gly Arg Pro Ser Ser Leu Leu Pro Lys Pro Gly Lys
           115           120           125
Glu Phe Gln Leu Leu Gly Asn Leu Glu Glu Lys Lys Glu Glu Pro Ala
           130           135           140
Thr Pro Ala Tyr Thr Ile Ser Ala Thr Glu Leu Leu Glu Lys Gln Ala
           145           150           155           160
Thr Pro Arg Glu Pro Glu Leu Leu Tyr Gln Asn Ile Ala Glu Pro Ser
           165           170           175
Gln Gly Thr Ser Thr Ala Gln Ala Xaa Ser Thr Ile Thr Phe Val Pro
           180           185           190
Tyr Leu Lys Gly Gln Phe Ala Pro Ser Tyr Glu Ser Arg Arg Gln Asn
           195           200           205
Gln Asp Arg Ile Asn Lys Thr Val Leu Tyr Gly Thr Pro Arg Lys Cys
           210           215           220
Phe Val Gly Gln Ser Lys Pro Asn His Pro Leu Leu Gln Ala Lys Pro
           225           230           235           240
Gln Ser Glu Pro Asp Tyr Leu Glu Val Leu Glu Lys Gln Thr Ala Ile
           245           250           255
Ser Gln Leu
           259

```

<210> 1063  
 <211> 498  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1063  
 Ala Leu Cys His Ile Ala Val Gly Gln Gln Met Asn Leu His Trp Leu  
 1 5 10 15  
 His Lys Ile Gly Leu Val Val Ile Leu Ala Ser Thr Val Val Ala Met  
 20 25 30  
 Ser Ala Val Ala Gln Leu Trp Glu Asp Glu Trp Glu Val Leu Leu Ile  
 35 40 45  
 Ser Leu Gln Gly Thr Ala Pro Phe Leu His Val Gly Ala Val Ala Ala  
 50 55 60  
 Val Thr Met Leu Ser Trp Ile Val Ala Gly Gln Phe Ala Arg Ala Glu  
 65 70 75 80  
 Arg Thr Ser Ser Gln Val Thr Ile Leu Cys Thr Phe Phe Thr Val Val  
 85 90 95  
 Phe Ala Leu Tyr Leu Ala Pro Leu Thr Ile Ser Ser Pro Cys Ile Met  
 100 105 110  
 Glu Lys Lys Asp Leu Gly Pro Lys Pro Ala Leu Ile Gly His Arg Gly  
 115 120 125  
 Ala Pro Met Leu Ala Pro Glu His Thr Leu Met Ser Phe Arg Lys Ala  
 130 135 140  
 Leu Glu Gln Lys Leu Tyr Gly Leu Gln Ala Asp Ile Thr Ile Ser Leu  
 145 150 155 160  
 Asp Gly Val Pro Phe Leu Met His Asp Thr Thr Leu Arg Arg Thr Thr  
 165 170 175  
 Asn Val Glu Glu Phe Pro Glu Leu Ala Arg Arg Pro Ala Ser Met  
 180 185 190  
 Leu Asn Trp Thr Thr Leu Gln Arg Leu Asn Ala Gly Gln Trp Phe Leu  
 195 200 205  
 Lys Thr Asp Pro Phe Trp Thr Ala Ser Ser Leu Ser Pro Ser Asp His  
 210 215 220  
 Arg Glu Ala Gln Asn Gln Ser Ile Cys Ser Leu Ala Glu Leu Leu Glu  
 225 230 235 240  
 Leu Ala Lys Gly Asn Ala Thr Leu Leu Leu Asn Leu Arg Asp Pro Pro  
 245 250 255  
 Arg Glu His Pro Tyr Arg Ser Ser Phe Ile Asn Val Thr Leu Glu Ala  
 260 265 270  
 Val Leu His Ser Gly Phe Pro Gln His Gln Val Met Trp Leu Pro Ser  
 275 280 285  
 Arg Gln Arg Pro Leu Val Arg Lys Val Ala Pro Gly Phe Gln Gln Thr  
 290 295 300  
 Ser Gly Ser Lys Glu Ala Val Ala Ser Leu Arg Arg Gly His Ile Gln  
 305 310 315 320  
 Arg Leu Asn Leu Arg Tyr Thr Gln Val Ser Arg Gln Glu Leu Arg Asp  
 325 330 335  
 Tyr Ala Ser Trp Asn Leu Ser Val Asn Leu Tyr Thr Val Asn Ala Pro  
 340 345 350  
 Trp Leu Phe Ser Leu Leu Trp Cys Ala Gly Val Pro Ser Val Thr Ser  
 355 360 365  
 Asp Asn Ser His Thr Leu Ser Gln Val Pro Ser Pro Leu Trp Ile Met  
 370 375 380  
 Pro Pro Asp Glu Tyr Cys Leu Met Trp Val Thr Ala Asp Leu Val Ser  
 385 390 395 400  
 Phe Thr Leu Ile Val Gly Ile Phe Val Leu Gln Lys Trp Arg Leu Gly  
 405 410 415  
 Gly Ile Arg Ser Tyr Asn Pro Glu Gln Ile Met Leu Ser Ala Ala Val

```

      420      425      430
Arg Arg Thr Ser Arg Asp Val Ser Ile Met Lys Glu Lys Leu Ile Phe
      435      440      445
Ser Glu Ile Ser Asp Gly Val Glu Val Ser Asp Val Leu Ser Val Cys
      450      455      460
Ser Asp Asn Ser Tyr Asp Thr Tyr Ala Asn Ser Thr Ala Thr Pro Val
465      470      475      480
Gly Pro Arg Gly Gly Ser His Thr Lys Thr Leu Ile Glu Arg Ser
      485      490      495
Gly Arg
498

```

```

<210> 1064
<211> 374
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1064
Asn Ser Ala Asp Tyr Gly Asp Gly Pro Asp Ser Ser Asp Ala Asp Pro
 1      5      10      15
Asp Ser Gly Thr Glu Glu Gly Val Leu Asp Phe Ser Asp Pro Phe Ser
      20      25      30
Thr Glu Val Lys Pro Arg Ile Leu Leu Met Gly Leu Arg Arg Ser Gly
      35      40      45
Lys Ser Ser Ile Gln Lys Val Val Phe His Lys Met Ser Pro Asn Glu
      50      55      60
Thr Leu Phe Leu Glu Ser Thr Asn Lys Ile Cys Arg Glu Asp Val Ser
      65      70      75      80
Asn Ser Ser Phe Val Asn Phe Gln Ile Trp Asp Phe Pro Gly Gln Ile
      85      90      95
Asp Phe Phe Asp Pro Thr Phe Asp Tyr Glu Met Ile Phe Arg Gly Thr
      100      105      110
Gly Ala Leu Ile Phe Val Ile Asp Ser Gln Asp Asp Tyr Met Glu Ala
      115      120      125
Leu Ala Arg Leu His Leu Thr Val Thr Arg Ala Tyr Lys Val Asn Thr
      130      135      140
Asp Ile Asn Phe Glu Val Phe Ile His Lys Val Asp Gly Leu Ser Asp
      145      150      155      160
Asp His Lys Ile Glu Thr Gln Arg Asp Ile His Gln Arg Ala Asn Asp
      165      170      175
Asp Leu Ala Asp Ala Gly Leu Glu Lys Ile His Leu Ser Phe Tyr Leu
      180      185      190
Thr Ser Ile Tyr Asp His Ser Ile Phe Glu Ala Phe Ser Lys Val Val
      195      200      205
Gln Lys Leu Ile Pro Gln Leu Pro Thr Leu Glu Asn Leu Leu Asn Ile
      210      215      220
Phe Ile Ser Asn Ser Gly Ile Glu Lys Ala Phe Leu Phe Asp Val Val
      225      230      235      240
Ser Lys Ile Tyr Ile Ala Thr Asp Ser Thr Pro Val Asp Met Gln Thr
      245      250      255
Tyr Glu Leu Cys Cys Asp Met Ile Asp Val Val Ile Asp Ile Ser Cys
      260      265      270
Ile Tyr Gly Leu Lys Glu Asp Gly Ala Gly Thr Pro Tyr Asp Lys Glu
      275      280      285
Ser Thr Ala Ile Ile Lys Leu Asn Asn Thr Thr Val Leu Tyr Leu Lys
      290      295      300
Glu Val Thr Lys Phe Leu Ala Leu Val Cys Phe Val Arg Glu Glu Ser
      305      310      315      320
Phe Glu Arg Lys Gly Leu Ile Asp Tyr Asn Phe His Cys Phe Arg Lys

```

```

          325          330          335
Ala Ile His Glu Val Phe Glu Val Arg Met Lys Val Val Lys Ser Arg
          340          345          350
Lys Val Gln Asn Arg Leu Gln Lys Lys Lys Arg Ala Thr Pro Asn Gly
          355          360          365
Thr Pro Arg Val Leu Leu
          370          374

```

```

<210> 1065
<211> 278
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1065
Arg Thr Arg Gly Arg Asp Pro Gly Ala Gly Phe Arg Arg Thr Ala Asn
 1          5          10          15
Lys Arg Cys Cys Arg Arg Arg Phe Leu Ile Gly Cys Gly Trp Leu Pro
          20          25          30
Leu Arg Ser Asp Trp Pro Leu Val Ser Lys Met Leu Ser Lys Gly Leu
          35          40          45
Lys Arg Lys Arg Glu Glu Glu Glu Lys Glu Pro Leu Ala Val Asp
          50          55          60
Ser Trp Trp Leu Asp Pro Gly His Ala Ala Val Ala Gln Ala Pro Pro
          65          70          75          80
Ala Val Ala Ser Ser Ser Leu Phe Asp Leu Ser Val Leu Lys Leu His
          85          90          95
His Ser Leu Gln Gln Ser Glu Pro Asp Leu Arg His Leu Val Leu Val
          100          105          110
Val Asn Thr Leu Arg Arg Ile Gln Ala Ser Met Ala Pro Ala Ala Ala
          115          120          125
Leu Pro Pro Val Pro Ser Pro Pro Ala Ala Pro Ser Val Ala Asp Asn
          130          135          140
Leu Leu Ala Ser Ser Asp Ala Ala Leu Ser Ala Ser Met Ala Ser Leu
          145          150          155          160
Leu Glu Asp Leu Ser His Ile Glu Gly Leu Ser Gln Ala Pro Gln Pro
          165          170          175
Leu Ala Asp Glu Gly Pro Pro Gly Arg Ser Ile Gly Gly Ala Ala Pro
          180          185          190
Ser Leu Gly Ala Leu Asp Leu Leu Gly Pro Ala Thr Gly Cys Leu Leu
          195          200          205
Asp Asp Gly Leu Glu Gly Leu Phe Glu Asp Ile Asp Thr Ser Met Tyr
          210          215          220
Asp Asn Glu Leu Trp Ala Pro Ala Ser Glu Gly Leu Lys Pro Gly Pro
          225          230          235          240
Glu Asp Gly Pro Gly Lys Glu Glu Ala Pro Glu Leu Asp Glu Ala Glu
          245          250          255
Leu Asp Tyr Leu Met Asp Val Leu Val Gly Thr Gln Ala Leu Glu Arg
          260          265          270
Pro Pro Gly Pro Gly Arg
          275          278

```

```

<210> 1066
<211> 502
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```



&lt;222&gt; (1)...(502)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1066

```

Leu Gln Glu Val Lys Ala Arg Arg Asn Thr Leu His Lys Glu Lys Asp
 1          5          10          15
His Leu Val Asn Asp Tyr Glu Gln Asn Met Lys Leu Leu Gln Thr Lys
          20          25          30
Tyr Asp Ala Asp Ile Asn Leu Leu Lys Gln Glu His Ala Leu Ser Ala
          35          40          45
Ser Lys Ala Ser Ser Met Ile Glu Glu Leu Glu Gln Asn Val Cys Gln
          50          55          60
Leu Lys Gln Gln Leu Gln Glu Ser Glu Leu Gln Arg Lys Gln Gln Leu
          65          70          75          80
Arg Asp Gln Glu Asn Lys Phe Gln Met Glu Lys Ser His Leu Lys His
          85          90          95
Ile Tyr Glu Lys Lys Ala His Asp Leu Gln Ser Glu Leu Asp Lys Gly
          100          105          110
Lys Glu Asp Thr Gln Lys Lys Ile His Lys Phe Glu Glu Ala Leu Lys
          115          120          125
Trp Lys Lys Trp Arg Gln Ile Xaa Leu Asp Pro Asn Leu Leu Arg Glu
          130          135          140
Lys Gln Ser Lys Glu Phe Leu Trp Gln Leu Glu Asp Ile Arg Gln Arg
          145          150          155          160
Tyr Glu Gln Gln Ile Val Glu Leu Lys Leu Glu His Glu Gln Glu Lys
          165          170          175
Thr His Leu Leu Gln Gln His Asn Ala Glu Lys Asp Ser Leu Val Arg
          180          185          190
Asp His Glu Arg Glu Ile Glu Asn Leu Glu Lys Gln Leu Arg Ala Ala
          195          200          205
Asn Met Glu His Glu Asn Gln Ile Gln Glu Phe Lys Lys Arg Asp Ala
          210          215          220
Gln Val Ile Ala Asp Met Glu Ala Gln Val His Lys Leu Arg Glu Glu
          225          230          235          240
Leu Ile Asn Val Asn Ser Gln Arg Lys Gln Gln Leu Val Glu Leu Gly
          245          250          255
Leu Leu Arg Glu Glu Glu Lys Gln Arg Ala Thr Arg Glu His Glu Ile
          260          265          270
Val Val Asn Lys Leu Lys Ala Glu Ser Glu Lys Met Lys Ile Glu Leu
          275          280          285
Lys Lys Thr His Ala Ala Glu Thr Glu Met Thr Leu Glu Lys Ala Asn
          290          295          300
Ser Lys Leu Lys Gln Ile Glu Lys Glu Tyr Thr Gln Lys Leu Ala Lys
          305          310          315          320
Ser Ser Gln Ile Ile Ala Glu Leu Gln Thr Thr Ile Ser Ser Leu Lys
          325          330          335
Glu Glu Asn Ser Gln Gln Gln Leu Ala Ala Glu Arg Arg Leu Gln Asp
          340          345          350
Val Arg Gln Lys Phe Glu Asp Glu Lys Lys Gln Leu Ile Arg Asp Asn
          355          360          365
Asp Gln Ala Ile Lys Val Leu Gln Asp Glu Leu Glu Asn Arg Ser Asn
          370          375          380
Gln Val Arg Cys Ala Glu Lys Lys Leu Gln His Lys Glu Leu Glu Ser
          385          390          395          400
Gln Glu Gln Ile Thr Tyr Ile Arg Gln Glu Tyr Glu Thr Lys Leu Lys
          405          410          415
Gly Leu Met Pro Ala Ser Leu Arg Gln Glu Leu Glu Asp Thr Ile Ser
          420          425          430
Ser Leu Lys Ser Gln Val Asn Phe Leu Gln Lys Arg Ala Ser Ile Leu
          435          440          445

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Gln Glu Glu Arg Asp Tyr Ile Ser Arg Gln Lys Val Gln Pro Ile Ser  
 450 455 460  
 Arg Xaa Leu His Glu Arg Met Gln Arg Met Arg Ile Ser Arg Leu Cys  
 465 470 475 480  
 Cys Gly Thr Ser Ser Ser Arg Phe Glu Asp Leu Asp Ile Val Asn Cys  
 485 490 495  
 Glu Ile Ser Gly Ile Phe  
 500 502

&lt;210&gt; 1067

&lt;211&gt; 301

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(301)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1067

Val Ile Asn Leu Val Tyr Leu Ile Ser Ser Pro Arg Pro Glu Leu Lys  
 1 5 10 15  
 Pro Val Asp Lys Glu Ser Glu Val Val Met Lys Phe Pro Asp Gly Phe  
 20 25 30  
 Glu Lys Phe Ser Pro Pro Ile Leu Gln Leu Asp Glu Val Asp Phe Tyr  
 35 40 45  
 Tyr Asp Pro Lys His Val Ile Phe Ser Arg Leu Ser Val Ser Ala Asp  
 50 55 60  
 Leu Glu Ser Arg Ile Cys Val Val Gly Glu Asn Gly Ala Gly Lys Ser  
 65 70 75 80  
 Thr Met Leu Lys Leu Leu Leu Gly Asp Leu Ala Pro Val Arg Gly Ile  
 85 90 95  
 Arg His Ala His Arg Asn Leu Lys Ile Gly Tyr Phe Ser Gln His His  
 100 105 110  
 Val Glu Gln Leu Asp Leu Asn Val Gln Cys Leu Trp Glu Leu Ala Gly  
 115 120 125  
 His Ala Ser Phe Pro Gly Arg Pro Glu Glu Glu Tyr Arg His Gln Leu  
 130 135 140  
 Gly Phe Gly Met Gly Ile Ser Gly Glu Leu Ala Met Arg Pro Leu Cys  
 145 150 155 160  
 Gln Pro Val Leu Gly Ala Arg Lys Lys Pro Lys Trp Pro Phe Ala Gln  
 165 170 175  
 Met Asp Tyr Cys Pro Ala Pro Thr Phe Tyr Ile Leu Asp Glu Pro Thr  
 180 185 190  
 Asn His Leu Gly His Gly Arg Ala Ile Glu Ala Leu Gly Pro Cys Leu  
 195 200 205  
 Gln Thr Ile Ser Gly Val Gly Val Ile Leu Val Ser His Glu Xaa Ser  
 210 215 220  
 Ala Leu Ser Arg Leu Val Cys Arg Glu Leu Trp Val Cys Xaa Gly Gly  
 225 230 235 240  
 Gly Val Thr Arg Val Glu Arg Lys Asp Phe Asp Gln Tyr Arg Ala Leu  
 245 250 255  
 Leu Gln Gly Thr Val Ser Ala Arg Glu Gly Phe Pro Leu Gly Pro Pro  
 260 265 270  
 Arg Leu Lys Asp Ser Pro Arg Asp Met Gly Leu Val Ser Gln Thr Pro  
 275 280 285  
 Trp Gly His His Val Gly Tyr Pro Leu Pro Gly Arg Gly  
 290 295 300 301

<210> 1068  
 <211> 215  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1068  
 Cys Ser Ala Val Glu Val Lys Met Ala Ala Arg Thr Ala Phe Gly Ala  
 1 5 10 15  
 Val Cys Arg Arg Leu Trp Gln Gly Leu Gly Asn Phe Ser Val Asn Thr  
 20 25 30  
 Ser Lys Gly Asn Thr Ala Lys Asn Gly Gly Leu Leu Leu Ser Thr Asn  
 35 40 45  
 Met Lys Trp Val Gln Phe Ser Asn Leu His Val Asp Val Pro Lys Asp  
 50 55 60  
 Leu Thr Lys Pro Val Val Thr Ile Ser Asp Glu Pro Asp Ile Leu Tyr  
 65 70 75 80  
 Lys Arg Leu Ser Val Leu Val Lys Gly His Asp Lys Ala Val Leu Asp  
 85 90 95  
 Ser Tyr Glu Tyr Phe Ala Val Leu Ala Ala Lys Glu Leu Gly Ile Ser  
 100 105 110  
 Ile Lys Val His Glu Pro Pro Arg Lys Ile Glu Arg Phe Thr Leu Leu  
 115 120 125  
 Gln Ser Val His Ile Tyr Lys Lys His Arg Val Gln Tyr Glu Met Arg  
 130 135 140  
 Thr Leu Tyr Arg Cys Leu Glu Leu Glu His Leu Thr Gly Ser Thr Ala  
 145 150 155 160  
 Asp Val Tyr Leu Glu Tyr Ile Gln Arg Asn Leu Pro Glu Gly Val Ala  
 165 170 175  
 Met Glu Val Thr Lys Phe Cys Phe Phe Ile Phe Leu Thr Gln Leu Glu  
 180 185 190  
 Gln Leu Pro Glu His Ile Lys Glu Pro Ile Trp Glu Thr Leu Ser Glu  
 195 200 205  
 Glu Lys Glu Glu Ser Lys Ser  
 210 215

<210> 1069  
 <211> 274  
 <212> Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(274)  
 <223> X = any amino acid or stop code

<400> 1069  
 Asp Phe Trp Asp Thr Ala Gly Gln Glu Arg Phe Gln Ser Met His Ala  
 1 5 10 15  
 Ser Tyr Tyr His Lys Thr His Ala Cys Ile Met Val Phe Asp Val Gln  
 20 25 30  
 Arg Lys Val Thr His Arg Asn Leu Ser Thr Trp Tyr Thr Glu Leu Arg  
 35 40 45  
 Glu Phe Arg Pro Glu Ile Pro Cys Ile Val Val Ala Asn Lys Ile Asp  
 50 55 60

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Gly Gly Ala Ile Pro Ala Pro Gly Cys Xaa Gln Phe Thr Gly Asp Leu
 65           70           75           80
Pro Ser Tyr Ile Ser Ser Ser Ile Pro Arg Ala Gly Asn Leu Gln Xaa
           85           90           95
Leu Val Leu Pro Pro Thr Ile Arg Tyr Asn Pro Trp Leu Val Ala Cys
           100          105          110
Ile Leu Pro Thr Leu Xaa Arg Ser Gln Leu Ser Arg Pro Ala Leu Phe
           115          120          125
Pro Arg His Arg Ser Leu Leu Thr Glu Leu Phe Leu Gly Pro Val Ser
           130          135          140
Gln Ser Ser Leu Pro Ile Pro Leu Ser Gly Met Lys Ala Ser Ser Gly
145           150          155          160
Pro Pro Leu Gln Thr Phe Phe Pro Ser Leu Asp Arg Gln Thr Asn Val
           165          170          175
Leu Pro Ser Leu Tyr Ala Asp Ile Asn Val Thr Gln Lys Ser Phe Asn
           180          185          190
Phe Ala Lys Lys Phe Ser Leu Pro Leu Tyr Phe Val Ser Ala Ala Asp
           195          200          205
Gly Thr Asn Val Val Lys Leu Phe Asn Asp Ala Ile Arg Leu Ala Val
210           215          220
Ser Tyr Lys Gln Asn Ser Gln Asp Phe Met Asp Glu Ile Phe Gln Glu
225           230          235          240
Leu Glu Asn Phe Ser Leu Glu Gln Glu Glu Glu Asp Val Pro Asp Gln
           245          250          255
Glu Gln Ser Ser Ser Ile Glu Thr Pro Ser Glu Glu Val Ala Ser Pro
           260          265          270
His Ser
274

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&lt;210&gt; 1070

&lt;211&gt; 368

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(368)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1070

```

Gly Ala Thr Pro Leu Gly Ser Val Gly Gly Arg Thr Gly Lys Met Asp
 1           5           10           15
Ala Ala Thr Leu Thr Tyr Asp Thr Leu Arg Phe Ala Glu Phe Glu Asp
           20           25           30
Phe Pro Glu Thr Ser Glu Pro Val Trp Ile Leu Gly Arg Lys Tyr Ser
           35           40           45
Ile Phe Thr Glu Lys Asp Glu Ile Leu Ser Asp Val Ala Ser Arg Leu
           50           55           60
Trp Phe Thr Tyr Arg Lys Asn Phe Pro Ala Ile Gly Gly Thr Gly Pro
65           70           75           80
Thr Ser Asp Thr Gly Trp Gly Cys Met Leu Arg Cys Gly Gln Met Ile
           85           90           95
Phe Ala Gln Ala Leu Val Cys Arg His Leu Gly Arg Asp Trp Arg Trp
           100          105          110
Thr Gln Arg Lys Arg Gln Pro Asp Ser Tyr Phe Ser Val Leu Asn Ala
           115          120          125
Phe Ile Asp Arg Lys Asp Ser Tyr Tyr Ser Ile His Gln Ile Ala Gln
130           135          140
Met Gly Val Gly Glu Gly Lys Ser Ile Gly Gln Trp Tyr Gly Pro Asn

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145					150					155				160
Thr	Val	Ala	Gln	Val	Leu	Lys	Lys	Leu	Ala	Val	Phe	Asp	Thr	Trp
				165					170					175
Ser	Leu	Ala	Val	His	Ile	Ala	Met	Asp	Asn	Thr	Val	Val	Met	Glu
			180					185					190	
Ile	Arg	Arg	Leu	Cys	Arg	Thr	Ser	Val	Pro	Cys	Ala	Gly	Ala	Thr
	195					200						205		
Phe	Pro	Ala	Asp	Ser	Asp	Arg	His	Cys	Asn	Gly	Phe	Pro	Ala	Gly
	210					215					220			
Glu	Val	Thr	Asn	Arg	Pro	Ser	Pro	Trp	Arg	Pro	Leu	Val	Leu	Ile
225					230				235					240
Pro	Leu	Arg	Leu	Gly	Leu	Thr	Asp	Ile	Asn	Glu	Ala	Tyr	Val	Glu
			245					250						255
Leu	Lys	His	Cys	Phe	Met	Met	Pro	Gln	Ser	Leu	Gly	Val	Ile	Gly
			260					265					270	
Lys	Pro	Asn	Ser	Ala	His	Tyr	Phe	Ile	Gly	Xaa	Val	Gly	Glu	Glu
		275					280						285	
Ile	Tyr	Leu	Asp	Pro	His	Thr	Thr	Gln	Pro	Ala	Val	Glu	Pro	Thr
	290					295					300			
Gly	Cys	Phe	Ile	Pro	Asp	Glu	Ser	Phe	His	Cys	Gln	His	Pro	Pro
305				310				315						320
Arg	Met	Ser	Ile	Ala	Glu	Leu	Asp	Pro	Ser	Ile	Ala	Val	Val	Arg
			325					330						335
Gly	His	Leu	Ser	Thr	Gln	Ala	Phe	Gly	Ala	Glu	Cys	Cys	Leu	Gly
		340					345					350		
Thr	Arg	Lys	Thr	Phe	Gly	Phe	Leu	Arg	Phe	Phe	Phe	Ser	Met	Leu
		355					360					365		368

&lt;210&gt; 1071

&lt;211&gt; 81

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1071

Ala	Leu	Cys	Val	Val	Pro	Phe	Asn	Thr	Phe	His	Asn	Asp	Phe	Leu	Leu
1				5					10					15	
Leu	Asp	Lys	Glu	Gly	Thr	Leu	Asp	Pro	Val	Met	Asp	Ser	Phe	Ser	Thr
			20					25					30		
His	Trp	Thr	Thr	Ile	Gly	Pro	Ala	Asp	Met	Phe	Phe	Ser	Phe	Arg	Gln
		35				40						45			
His	Tyr	Lys	Asn	Phe	Lys	Ser	His	Gly	Thr	Asn	Pro	Ser	Lys	Ser	Val
	50					55				60					
Trp	Ala	His	Ala	Thr	Cys	Gln	Ser	Cys	Ala	Phe	Pro	Asn	Leu	Leu	Gly
65					70				75					80	
Trp															
81															

&lt;210&gt; 1072

&lt;211&gt; 494

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

<400> 1072

Thr	Arg	Leu	Ala	Glu	Phe	Gly	Thr	Arg	Asp	Pro	Cys	Ala	Gln	Ala	Pro	1	5	10	15
Cys	Glu	Gln	Gln	Cys	Glu	Pro	Gly	Gly	Pro	Gln	Gly	Tyr	Ser	Cys	His	20	25	30	
Cys	Arg	Leu	Gly	Phe	Arg	Pro	Ala	Glu	Asp	Asp	Pro	His	Arg	Cys	Val	35	40	45	
Asp	Thr	Asp	Glu	Cys	Gln	Ile	Ala	Gly	Val	Cys	Gln	Gln	Met	Cys	Val	50	55	60	
Asn	Tyr	Val	Gly	Gly	Phe	Glu	Cys	Tyr	Cys	Ser	Glu	Gly	His	Glu	Leu	65	70	75	80
Glu	Ala	Asp	Gly	Ile	Ser	Cys	Ser	Pro	Ala	Gly	Ala	Met	Gly	Ala	Gln	85	90	95	
Ala	Ser	Gln	Asp	Leu	Gly	Asp	Glu	Leu	Leu	Asp	Asp	Gly	Glu	Asp	Glu	100	105	110	
Glu	Asp	Glu	Asp	Glu	Ala	Trp	Lys	Ala	Phe	Asn	Gly	Gly	Trp	Thr	Glu	115	120	125	
Met	Pro	Gly	Ile	Leu	Trp	Met	Glu	Pro	Thr	Gln	Pro	Pro	Asp	Phe	Ala	130	135	140	
Leu	Ala	Tyr	Arg	Pro	Ser	Phe	Pro	Glu	Asp	Arg	Glu	Pro	Gln	Ile	Pro	145	150	155	160
Tyr	Pro	Glu	Pro	Thr	Trp	Pro	Pro	Pro	Leu	Ser	Ala	Pro	Arg	Val	Pro	165	170	175	
Tyr	His	Ser	Ser	Val	Leu	Ser	Val	Thr	Arg	Pro	Val	Val	Val	Ser	Ala	180	185	190	
Thr	His	Pro	Thr	Leu	Pro	Ser	Ala	His	Gln	Pro	Pro	Val	Ile	Pro	Ala	195	200	205	
Thr	His	Pro	Ala	Leu	Ser	Arg	Asp	His	Gln	Ile	Pro	Val	Ile	Ala	Ala	210	215	220	
Asn	Tyr	Pro	Asp	Leu	Pro	Ser	Ala	Tyr	Gln	Pro	Gly	Ile	Leu	Ser	Val	225	230	235	240
Ser	His	Ser	Ala	Gln	Pro	Pro	Ala	His	Gln	Pro	Pro	Met	Ile	Ser	Thr	245	250	255	
Lys	Tyr	Pro	Glu	Leu	Phe	Pro	Ala	His	Gln	Ser	Pro	Met	Phe	Pro	Asp	260	265	270	
Thr	Arg	Val	Ala	Gly	Thr	Gln	Thr	Thr	Thr	His	Leu	Pro	Gly	Ile	Pro	275	280	285	
Pro	Asn	His	Ala	Pro	Leu	Val	Thr	Thr	Leu	Gly	Ala	Gln	Leu	Pro	Pro	290	295	300	
Gln	Ala	Pro	Asp	Ala	Leu	Val	Leu	Arg	Thr	Gln	Ala	Thr	Gln	Leu	Pro	305	310	315	320
Ile	Ile	Pro	Thr	Ala	Gln	Pro	Ser	Leu	Thr	Thr	Thr	Ser	Arg	Ser	Pro	325	330	335	
Val	Ser	Pro	Ala	His	Gln	Ile	Ser	Val	Pro	Ala	Ala	Thr	Gln	Pro	Ala	340	345	350	
Ala	Leu	Pro	Thr	Leu	Leu	Pro	Ser	Gln	Ser	Pro	Thr	Asn	Gln	Thr	Ser	355	360	365	
Pro	Ile	Ser	Pro	Thr	His	Pro	His	Ser	Lys	Ala	Pro	Gln	Ile	Pro	Arg	370	375	380	
Glu	Asp	Gly	Pro	Ser	Pro	Lys	Leu	Ala	Leu	Trp	Leu	Pro	Ser	Pro	Ala	385	390	395	400
Pro	Thr	Ala	Ala	Pro	Thr	Ala	Leu	Gly	Glu	Ala	Gly	Leu	Ala	Glu	His	405	410	415	
Ser	Gln	Arg	Asp	Asp	Arg	Trp	Leu	Leu	Val	Ala	Leu	Leu	Val	Pro	Thr	420	425	430	
Cys	Val	Phe	Leu	Val	Val	Leu	Leu	Ala	Leu	Gly	Ile	Val	Tyr	Cys	Thr	435	440	445	
Arg	Cys	Gly	Pro	His	Ala	Pro	Asn	Lys	Arg	Ile	Thr	Asp	Cys	Tyr	Arg	450	455	460	
Trp	Val	Ile	His	Ala	Gly	Ser	Lys	Ser	Pro	Thr	Glu	Pro	Met	Pro	Pro	465	470	475	480
Arg	Gly	Ser	Leu	Thr	Gly	Val	Gln	Thr	Cys	Arg	Thr	Ser	Val	485	490	494			

<210> 1073  
 <211> 468  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1073  
 Leu Arg Val Arg Arg Arg Pro His Leu Pro Ala Pro Pro Ala Leu Arg  
 1 5 10 15  
 Ala Arg Arg Ser Asp Arg Arg Ser Ser Arg Ala Pro Ala Ala Phe Pro  
 20 25 30  
 Pro Arg Pro Pro His Ala Ser Pro Ala Pro Gly Pro Ala Met Ala Gln  
 35 40 45  
 Ala Val Trp Ser Arg Leu Gly Arg Ile Leu Trp Leu Ala Cys Leu Leu  
 50 55 60  
 Pro Trp Ala Pro Ala Gly Val Ala Ala Gly Leu Tyr Glu Leu Asn Leu  
 65 70 75 80  
 Thr Thr Asp Ser Pro Ala Thr Thr Gly Ala Val Val Thr Ile Ser Ala  
 85 90 95  
 Ser Leu Val Ala Lys Asp Asn Gly Ser Leu Ala Leu Pro Ala Asp Ala  
 100 105 110  
 His Leu Tyr Arg Phe His Trp Ile His Thr Pro Leu Val Leu Thr Gly  
 115 120 125  
 Lys Met Glu Lys Gly Leu Ser Ser Thr Ile Arg Val Val Gly His Val  
 130 135 140  
 Pro Gly Glu Phe Pro Val Ser Val Trp Val Thr Ala Ala Asp Cys Trp  
 145 150 155 160  
 Met Cys Gln Pro Val Ala Arg Gly Phe Val Val Leu Pro Ile Thr Glu  
 165 170 175  
 Phe Leu Val Gly Asp Leu Val Val Thr Gln Asn Thr Ser Leu Pro Trp  
 180 185 190  
 Pro Ser Ser Tyr Leu Thr Lys Thr Val Leu Lys Val Ser Phe Leu Leu  
 195 200 205  
 His Asp Pro Ser Asn Phe Leu Lys Thr Ala Leu Phe Leu Tyr Ser Trp  
 210 215 220  
 Asp Phe Gly Asp Gly Thr Gln Met Val Thr Glu Asp Ser Val Val Tyr  
 225 230 235 240  
 Tyr Asn Tyr Ser Ile Ile Gly Thr Phe Thr Val Lys Leu Lys Val Val  
 245 250 255  
 Ala Glu Trp Glu Glu Val Glu Pro Asp Ala Thr Arg Ala Val Lys Gln  
 260 265 270  
 Lys Thr Gly Asp Phe Ser Ala Ser Leu Lys Leu Gln Glu Thr Leu Arg  
 275 280 285  
 Gly Ile Gln Val Leu Gly Pro Thr Leu Ile Gln Thr Phe Gln Lys Met  
 290 295 300  
 Thr Val Thr Leu Asn Phe Leu Gly Ser Pro Pro Leu Thr Val Cys Trp  
 305 310 315 320  
 Arg Leu Lys Pro Glu Cys Leu Pro Leu Glu Gly Glu Cys His Pro  
 325 330 335  
 Val Ser Val Ala Ser Thr Ala Tyr Asn Leu Thr His Thr Phe Arg Asp  
 340 345 350  
 Pro Gly Asp Tyr Cys Phe Ser Ile Arg Ala Glu Asn Ile Ile Ser Lys  
 355 360 365  
 Thr His Gln Tyr His Lys Ile Gln Val Trp Pro Ser Arg Ile Gln Pro  
 370 375 380  
 Ala Val Phe Ala Phe Pro Cys Ala Thr Leu Ile Thr Val Met Leu Ala  
 385 390 395 400  
 Phe Ile Met Tyr Met Thr Leu Arg Asn Ala Thr Gln Gln Lys Asp Met  
 405 410 415  
 Val Glu Asn Pro Glu Pro Pro Ser Gly Val Arg Cys Cys Cys Gln Met

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          420          425          430
Cys Cys Gly Pro Phe Leu Leu Glu Thr Pro Ser Glu Tyr Leu Glu Ile
          435          440          445
Val Arg Glu Asn His Gly Leu Leu Pro Pro Leu Tyr Lys Ser Val Lys
          450          455          460
Thr Tyr Thr Val
465          468

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<210> 1074
<211> 288
<212>Amino acid
<213> Homo sapiens

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<400> 1074
Val Val Glu Phe Ala Phe Gln Leu Ser Ser Val Ser Val Cys Leu Thr
  1          5          10          15
Val Ser Phe Gly Trp Gln Leu Gly Thr Val Ser Ser Cys Leu Ser Arg
          20          25          30
Asp Trp Phe Leu Lys Gly Asn Leu Ile Ile Ile Val Ser Val Leu
          35          40          45
Ile Ile Leu Pro Leu Ala Leu Met Lys His Leu Gly Tyr Leu Gly Tyr
          50          55          60
Thr Ser Gly Leu Ser Leu Thr Cys Met Leu Phe Phe Leu Val Ser Val
          65          70          75          80
Ile Tyr Lys Lys Phe Gln Leu Gly Cys Ala Ile Gly His Asn Glu Thr
          85          90          95
Ala Met Glu Ser Glu Ala Leu Val Gly Leu Pro Ser Gln Gly Leu Asn
          100          105          110
Ser Ser Cys Glu Ala Gln Met Phe Thr Val Asp Ser Gln Met Ser Tyr
          115          120          125
Thr Val Pro Ile Met Ala Phe Ala Phe Val Cys His Pro Glu Val Leu
          130          135          140
Pro Ile Tyr Thr Glu Leu Cys Arg Pro Ser Lys Arg Arg Met Gln Ala
          145          150          155          160
Val Ala Asn Val Ser Ile Gly Ala Met Phe Cys Met Tyr Gly Leu Thr
          165          170          175
Ala Thr Phe Gly Tyr Leu Thr Phe Tyr Ser Ser Val Lys Ala Glu Met
          180          185          190
Leu His Met Tyr Ser Gln Lys Asp Pro Leu Ile Leu Cys Val Arg Leu
          195          200          205
Ala Val Leu Leu Ala Val Thr Leu Thr Val Pro Val Val Leu Phe Pro
          210          215          220
Ile Arg Arg Ala Leu Gln Gln Leu Leu Phe Pro Gly Lys Ala Phe Ser
          225          230          235          240
Trp Pro Arg His Val Ala Ile Ala Leu Ile Leu Leu Val Leu Val Asn
          245          250          255
Val Leu Val Ile Cys Val Pro Thr Ile Arg Asp Ile Phe Gly Val Ile
          260          265          270
Gly Ser Thr Ser Ala Pro Ser Leu Ile Phe Ile Leu Pro Ser Cys Ile
          275          280          285          288

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<210> 1075
<211> 273
<212>Amino acid
<213> Homo sapiens

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<220>  
 <221> misc\_feature  
 <222> (1)...(273)  
 <223> X = any amino acid or stop code

<400> 1075  
 Gly Ala Gly Ser Lys Ser Ser Met Met Gln Leu Met His Leu Glu Ser  
 1 5 10 15  
 Phe Tyr Glu Lys Pro Pro Pro Gly Leu Ile Lys Glu Asp Asp Thr Lys  
 20 25 30  
 Pro Glu Asp Cys Ile Pro Asp Val Pro Gly Asn Glu His Ala Arg Glu  
 35 40 45  
 Phe Leu Ala His Thr Pro Thr Lys Gly Leu Trp Met Pro Leu Glu Lys  
 50 55 60  
 Glu Val Lys Val Lys His Cys Thr Phe His Trp Ile Ala Ser Xaa Phe  
 65 70 75 80  
 Leu Gly Asp Gly Lys Phe Ile Pro Lys Ala Thr Arg Leu Lys Asp Val  
 85 90 95  
 Trp Val Ser Asn Xaa Phe Thr Cys Leu Phe Trp Asp Leu Thr Arg Phe  
 100 105 110  
 Ile His Asp Cys Ile Phe Phe Xaa Asn Trp Ser Leu Met Asn Lys Asn  
 115 120 125  
 Phe Asn Ile Ile Tyr Xaa Phe Phe Ile Ser Leu Arg Xaa Asn Thr Leu  
 130 135 140  
 Ile Leu Gln Lys Tyr Phe Pro Phe Ser Leu Leu Leu Gly Trp His Cys  
 145 150 155 160  
 Lys Trp Tyr Gly His Arg Thr Gly Tyr Lys Glu Cys Pro Phe Phe Ile  
 165 170 175  
 Lys Asp Asn Gln Lys Leu Gln Gln Phe Arg Val Ala His Glu Asp Phe  
 180 185 190  
 Met Tyr Asp Ile Ile Arg Asp Asn Lys Gln His Glu Lys Asn Val Arg  
 195 200 205  
 Ile Gln Gln Leu Lys Gln Leu Leu Glu Asp Ser Thr Ser Gly Glu Asp  
 210 215 220  
 Arg Ser Ser Ser Ser Ser Ser Ser Glu Gly Lys Glu Lys His Lys Lys Lys  
 225 230 235 240  
 Lys Lys Lys Glu Lys His Lys Lys Arg Lys Lys Glu Lys Lys Lys Lys  
 245 250 255  
 Lys Lys Arg Lys His Lys Ser Ser Lys Ser Asn Glu Gly Ser Asp Ser  
 260 265 270  
 Glu  
 273

<210> 1076  
 <211> 815  
 <212> Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(815)  
 <223> X = any amino acid or stop code

<400> 1076  
 Glu Ile Ala Gly Ala Ala Ala Glu Asn Met Leu Gly Ser Leu Leu Cys

1	5	10	15
Leu Pro Gly Ser Gly Ser Val Leu Leu Asp Pro Cys Thr Gly Ser Thr			
20	25	30	
Ile Ser Glu Thr Thr Ser Glu Ala Trp Ser Val Glu Val Leu Pro Ser			
35	40	45	
Asp Ser Glu Ala Pro Asp Leu Lys Gln Glu Glu Arg Leu Gln Glu Leu			
50	55	60	
Glu Ser Cys Ser Gly Leu Gly Ser Thr Ser Asp Thr Asp Val Arg			
65	70	75	80
Glu Val Ser Ser Arg Pro Ser Thr Pro Gly Leu Ser Val Val Ser Gly			
85	90	95	
Ile Ser Ala Thr Ser Glu Asp Ile Pro Asn Lys Ile Glu Asp Leu Arg			
100	105	110	
Ser Glu Cys Ser Ser Asp Phe Gly Gly Lys Asp Ser Val Thr Ser Pro			
115	120	125	
Asp Met Asp Glu Ile Thr His Asp Phe Leu Tyr Ile Leu Gln Pro Lys			
130	135	140	
Gln His Phe Gln His Ile Glu Ala Glu Ala Asp Met Arg Ile Gln Leu			
145	150	155	160
Ser Ser Ser Ala His Gln Leu Thr Ser Pro Pro Ser Gln Ser Glu Ser			
165	170	175	
Leu Leu Ala Met Phe Asp Pro Leu Ser Ser His Glu Gly Ala Ser Ala			
180	185	190	
Val Val Arg Pro Lys Val His Tyr Ala Arg Pro Ser His Pro Pro Pro			
195	200	205	
Asp Pro Pro Ile Leu Glu Gly Ala Val Gly Gly Asn Glu Ala Arg Leu			
210	215	220	
Pro Asn Phe Gly Ser Pro Met Phe Xaa Leu Pro Ala Glu Met Glu Ala			
225	230	235	240
Phe Lys Gln Arg His Ser Tyr Thr Pro Glu Arg Leu Val Arg Ser Arg			
245	250	255	
Ser Ser Asp Ile Val Ser Ser Val Arg Arg Pro Met Ser Asp Pro Ser			
260	265	270	
Trp Asn Arg Arg Pro Gly Asn Glu Glu Arg Glu Leu Pro Pro Ala Ala			
275	280	285	
Ala Ile Gly Ala Thr Ser Leu Val Ala Ala Pro His Ser Ser Ser Ser			
290	295	300	
Ser Pro Ser Lys Asp Ser Ser Arg Gly Glu Thr Glu Glu Arg Lys Asp			
305	310	315	320
Ser Asp Asp Glu Lys Ser Asp Arg Asn Arg Pro Trp Trp Arg Lys Arg			
325	330	335	
Phe Val Ser Ala Met Pro Lys Ala Pro Ile Pro Phe Arg Lys Lys Glu			
340	345	350	
Lys Gln Glu Lys Asp Lys Asp Asp Leu Gly Pro Asp Arg Phe Ser Thr			
355	360	365	
Leu Thr Asp Asp Pro Ser Pro Arg Leu Ser Ala Gln Ala Gln Val Ala			
370	375	380	
Glu Asp Ile Leu Asp Lys Tyr Arg Asn Ala Ile Lys Arg Thr Ser Pro			
385	390	395	400
Ser Asp Gly Ala Met Ala Asn Tyr Glu Ser Thr Glu Val Met Gly Asp			
405	410	415	
Gly Glu Ser Ala His Asp Ser Pro Arg Asp Glu Ala Leu Gln Asn Ile			
420	425	430	
Ser Ala Asp Asp Leu Pro Asp Ser Ala Ser Gln Ala Ala His Pro Gln			
435	440	445	
Asp Ser Ala Phe Ser Tyr Arg Asp Ala Lys Lys Lys Leu Arg Leu Ala			
450	455	460	
Leu Cys Ser Ala Asp Ser Val Ala Phe Pro Val Leu Thr His Ser Thr			
465	470	475	480
Arg Asn Gly Leu Pro Asp His Thr Asp Pro Glu Asp Asn Glu Ile Val			
485	490	495	
Cys Phe Leu Lys Val Gln Ile Ala Glu Ala Ile Asn Leu Gln Asp Lys			
500	505	510	
Asn Leu Met Ala Gln Leu Gln Glu Thr Met Arg Cys Val Cys Arg Phe			

515	520	525
Asp Asn Arg Thr Cys Arg Lys Leu Leu Ala Ser Ile Ala Glu Asp Tyr		
530	535	540
Arg Lys Arg Ala Pro Tyr Ile Ala Tyr Leu Thr Arg Cys Arg Gln Gly		
545	550	555
Leu Gln Thr Thr Gln Ala His Leu Glu Arg Leu Leu Gln Arg Val Leu		
565	570	575
Arg Asp Lys Glu Val Ala Asn Arg Tyr Phe Thr Thr Val Cys Val Arg		
580	585	590
Leu Leu Leu Glu Ser Lys Glu Lys Lys Ile Arg Glu Phe Ile Gln Asp		
595	600	605
Phe Gln Lys Leu Thr Ala Ala Asp Asp Lys Thr Ala Gln Val Glu Asp		
610	615	620
Phe Leu Gln Phe Leu Tyr Gly Ala Met Ala Gln Asp Val Ile Trp Gln		
625	630	635
Asn Ala Ser Glu Glu Gln Leu Gln Asp Ala Gln Leu Ala Ile Glu Arg		
645	650	655
Ser Val Met Asn Arg Ile Phe Lys Leu Ala Phe Tyr Pro Asn Gln Asp		
660	665	670
Gly Asp Ile Leu Arg Asp Gln Val Leu His Glu His Ile Gln Arg Leu		
675	680	685
Ser Lys Val Val Thr Ala Asn His Arg Ala Leu Gln Ile Pro Glu Val		
690	695	700
Tyr Leu Arg Glu Ala Pro Trp Pro Ser Ala Gln Ser Glu Ile Arg Thr		
705	710	715
Ile Ser Ala Tyr Lys Thr Pro Arg Asp Lys Val Gln Cys Ile Leu Arg		
725	730	735
Met Cys Ser Thr Ile Met Asn Leu Leu Ser Leu Ala Asn Glu Asp Ser		
740	745	750
Val Pro Gly Ala Asp Asp Phe Val Pro Val Leu Val Phe Val Leu Ile		
755	760	765
Lys Ala Asn Pro Pro Cys Leu Leu Ser Thr Val Gln Tyr Ile Ser Ser		
770	775	780
Phe Tyr Ala Ser Cys Leu Ser Gly Glu Glu Ser Tyr Trp Trp Met Gln		
785	790	795
Phe Thr Ala Ala Val Glu Phe Ile Lys Thr Ile Asp Asp Arg Lys		
805	810	815

&lt;210&gt; 1077

&lt;211&gt; 256

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1077

Trp Pro Met Ser Leu Ala Arg Gly His Gly Asp Thr Ala Ala Ser Thr	
1 5 10 15	
Ala Ala Pro Leu Ser Glu Glu Gly Glu Val Thr Ser Gly Leu Gln Ala	
20 25 30	
Leu Ala Val Glu Asp Thr Gly Gly Pro Ser Ala Ser Ala Gly Lys Ala	
35 40 45	
Glu Asp Glu Gly Glu Gly Gly Arg Glu Glu Thr Glu Arg Glu Gly Ser	
50 55 60	
Gly Gly Glu Glu Ala Gln Gly Glu Val Pro Ser Ala Gly Gly Glu Glu	
65 70 75 80	
Pro Ala Glu Glu Asp Ser Glu Asp Trp Cys Val Pro Cys Ser Asp Glu	
85 90 95	
Glu Val Glu Leu Pro Ala Asp Gly Gln Pro Trp Met Pro Pro Ser	
100 105 110	
Glu Ile Gln Arg Leu Tyr Glu Leu Leu Ala Ala His Gly Thr Leu Glu	

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      115      120      125
Leu Gln Ala Glu Ile Leu Pro Arg Arg Pro Pro Thr Pro Glu Ala Gln
  130      135      140
Ser Glu Glu Glu Arg Ser Asp Glu Glu Pro Glu Ala Lys Glu Glu Glu
145      150      155      160
Glu Glu Lys Pro His Met Pro Thr Glu Phe Asp Phe Asp Asp Glu Pro
      165      170      175
Val Thr Pro Lys Asp Ser Leu Ile Asp Arg Arg Arg Thr Pro Gly Ser
      180      185      190
Ser Ala Arg Ser Gln Lys Arg Glu Ala Arg Leu Asp Lys Val Leu Ser
      195      200      205
Asp Met Lys Arg His Lys Lys Leu Glu Glu Gln Ile Leu Arg Thr Gly
  210      215      220
Arg Asp Leu Phe Ser Leu Asp Ser Glu Asp Pro Ser Pro Ala Ser Pro
225      230      235      240
Pro Leu Arg Ser Ser Gly Ser Ser Leu Phe Pro Arg Gln Arg Lys Tyr
      245      250      255 256

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&lt;210&gt; 1078

&lt;211&gt; 590

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(590)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1078

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      1      5      10      15
Leu Gly Arg Gly Thr Phe Gly Gln Val Val Xaa Cys Trp Lys Arg Gly
  1      5      10      15
Thr Asn Glu Ile Val Ala Ile Lys Ile Leu Lys Asn His Pro Ser Tyr
      20      25      30
Ala Arg Gln Gly Gln Ile Glu Val Ser Ile Leu Ala Arg Leu Ser Thr
      35      40      45
Glu Ser Ala Asp Asp Tyr Asn Phe Val Arg Ala Tyr Glu Cys Phe Gln
  50      55      60
His Lys Asn His Thr Cys Leu Val Phe Glu Met Leu Glu Gln Asn Leu
  65      70      75      80
Tyr Asp Phe Leu Lys Gln Asn Lys Phe Ser Pro Leu Pro Leu Lys Tyr
      85      90      95
Ile Arg Pro Val Leu Gln Gln Val Ala Thr Ala Leu Met Lys Leu Lys
      100      105      110
Ser Leu Gly Leu Ile His Ala Asp Leu Lys Pro Glu Asn Ile Met Leu
      115      120      125
Val Asp Pro Ser Arg Gln Pro Tyr Arg Val Lys Val Ile Asp Phe Gly
  130      135      140
Ser Ala Ser His Val Ser Lys Ala Val Cys Ser Thr Tyr Leu Gln Ser
145      150      155      160
Arg Tyr Tyr Arg Ala Pro Glu Ile Ile Leu Gly Leu Pro Phe Cys Glu
      165      170      175
Ala Ile Asp Met Trp Ser Leu Gly Cys Val Ile Ala Glu Leu Phe Leu
      180      185      190
Gly Trp Pro Leu Tyr Pro Gly Ala Ser Glu Tyr Asp Gln Ile Arg Tyr
      195      200      205
Ile Ser Gln Thr Gln Gly Leu Pro Ala Glu Tyr Leu Leu Ser Ala Gly
  210      215      220

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Thr Lys Thr Thr Arg Phe Phe Asn Arg Asp Thr Asp Ser Pro Tyr Pro
225                230                235                240
Leu Trp Arg Leu Lys Thr Pro Asp Asp His Glu Ala Glu Thr Gly Ile
                245                250                255
Lys Ser Lys Glu Ala Arg Lys Tyr Ile Phe Asn Cys Leu Asp Asp Met
                260                265                270
Ala Gln Val Asn Met Thr Thr Asp Leu Glu Gly Ser Asp Met Leu Val
                275                280                285
Glu Lys Ala Val Arg Arg Glu Phe Ile Asp Leu Leu Lys Lys Met Leu
290                295                300
Ser Ile Asp Ser Val Lys Arg Phe Ser Pro Val Gly Ser Leu Asn His
305                310                315                320
Pro Phe Val Thr Met Ser Leu Phe Leu Asp Phe Pro His Ser Thr His
                325                330                335
Val Lys Ser Cys Phe Gln Asn Met Glu Ile Cys Lys Arg Arg Val Asn
                340                345                350
Met Tyr Asp Thr Val Asn Gln Ser Lys Thr Pro Phe Ile Thr His Val
                355                360                365
Ala Pro Ser Thr Ser Thr Asn Leu Thr Met Thr Phe Asn Asn Gln Leu
370                375                380
Thr Thr Val His Asn Gln Pro Ser Ala Ala Ser Met Ala Ala Val Ala
385                390                395                400
Gln Arg Ser Met Pro Leu Gln Thr Gly Thr Ala Gln Ile Cys Ala Arg
                405                410                415
Pro Asp Pro Phe Gln Gln Ala Leu Ile Val Cys Pro Pro Gly Phe Gln
                420                425                430
Gly Leu Gln Ala Ser Pro Ser Lys His Ala Gly Tyr Ser Val Arg Met
                435                440                445
Glu Asn Ala Val Pro Ile Val Thr Gln Ala Pro Gly Ala Gln Pro Leu
450                455                460
Gln Ile Gln Pro Gly Leu Leu Ala Gln Gln Ala Trp Pro Ser Gly Thr
465                470                475                480
Gln Gln Ile Leu Leu Pro Pro Ala Trp Gln Gln Leu Thr Gly Val Ala
                485                490                495
Thr His Thr Ser Val Gln His Ala Ala Val Ile Pro Glu Thr Met Ala
500                505                510
Gly Thr Gln Gln Leu Ala Asp Trp Arg Asn Thr His Ala His Gly Ser
515                520                525
His Tyr Asn Pro Ile Met Gln Gln Pro Ala Leu Leu Thr Gly His Val
530                535                540
Thr Leu Pro Ala Ala Gln Pro Leu Asn Val Gly Val Ala His Val Met
545                550                555                560
Arg Gln Gln Pro Thr Ser Thr Ser Ser Arg Lys Ser Lys Gln His
                565                570                575
Leu Tyr Cys Gly Arg Ala Arg Val Ser Lys Ile Ala Ser Arg
                580                585                590

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&lt;210&gt; 1079

&lt;211&gt; 904

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(904)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1079

Glu Phe Ala Ile Cys Arg Tyr Pro Leu Gly Met Ser Gly Gly Gln Ile

1	5	10	15
Pro Asp Glu Asp Ile Thr Ala Ser Ser Gln Trp Ser Glu Ser Thr Ala			
20	25	30	
Ala Lys Tyr Gly Arg Leu Asp Ser Glu Glu Gly Asp Gly Ala Trp Cys			
35	40	45	
Pro Glu Ile Pro Val Glu Pro Asp Asp Leu Lys Glu Phe Leu Gln Ile			
50	55	60	
Asp Leu His Thr Leu His Phe Ile Thr Leu Val Gly Thr Gln Gly Arg			
65	70	75	80
His Ala Gly Gly His Gly Ile Glu Phe Ala Pro Met Tyr Lys Ile Asn			
85	90	95	
Tyr Ser Arg Asp Gly Thr Arg Trp Ile Ser Trp Arg Asn Arg His Gly			
100	105	110	
Lys Gln Val Leu Asp Gly Asn Ser Asn Pro Tyr Asp Ile Phe Leu Lys			
115	120	125	
Asp Leu Glu Pro Pro Ile Val Ala Arg Phe Val Arg Phe Ile Pro Val			
130	135	140	
Thr Asp His Ser Met Asn Val Cys Met Arg Val Glu Leu Tyr Gly Cys			
145	150	155	160
Val Trp Leu Asp Gly Leu Val Ser Tyr Asn Ala Pro Ala Gly Gln Gln			
165	170	175	
Phe Val Leu Pro Gly Gly Ser Ile Ile Tyr Leu Asn Asp Ser Val Tyr			
180	185	190	
Asp Gly Ala Val Gly Tyr Ser Met Thr Glu Gly Leu Gly Gln Leu Thr			
195	200	205	
Asp Gly Val Ser Gly Leu Asp Asp Phe Thr Gln Thr His Glu Tyr His			
210	215	220	
Val Trp Pro Gly Tyr Asp Tyr Val Gly Trp Arg Asn Glu Ser Ala Thr			
225	230	235	240
Asn Gly Tyr Ile Glu Ile Met Phe Glu Phe Asp Arg Ile Arg Asn Phe			
245	250	255	
Thr Thr Met Lys Val His Cys Asn Asn Met Phe Ala Lys Gly Val Lys			
260	265	270	
Ile Phe Lys Glu Val Gln Cys Tyr Phe Arg Ser Glu Ala Ser Glu Trp			
275	280	285	
Glu Pro Asn Ala Ile Ser Phe Pro Leu Val Leu Asp Asp Val Asn Pro			
290	295	300	
Ser Ala Arg Phe Val Thr Val Pro Leu His His Arg Met Ala Ser Ala			
305	310	315	320
Ile Lys Cys Gln Tyr His Phe Ala Asp Thr Trp Met Met Phe Ser Glu			
325	330	335	
Ile Thr Phe Gln Ser Asp Ala Ala Met Tyr Asn Asn Ser Glu Ala Leu			
340	345	350	
Pro Thr Ser Pro Met Ala Pro Thr Thr Tyr Asp Pro Met Leu Lys Val			
355	360	365	
Asp Asp Ser Asn Thr Arg Ile Leu Ile Gly Cys Leu Val Ala Ile Ile			
370	375	380	
Phe Ile Leu Leu Ala Ile Ile Val Ile Ile Leu Trp Arg Gln Phe Trp			
385	390	395	400
Gln Lys Met Leu Glu Lys Ala Ser Arg Arg Met Leu Asp Asp Glu Met			
405	410	415	
Thr Val Ser Leu Ser Leu Pro Ser Asp Ser Ser Met Phe Asn Asn Asn			
420	425	430	
Arg Ser Ser Ser Pro Ser Glu Gln Gly Ser Asn Ser Thr Tyr Asp Arg			
435	440	445	
Ile Phe Pro Leu Arg Pro Asp Tyr Gln Glu Pro Ser Arg Leu Ile Arg			
450	455	460	
Lys Leu Pro Glu Phe Ala Pro Gly Glu Glu Glu Ser Gly Cys Ser Gly			
465	470	475	480
Val Val Lys Pro Val Gln Pro Ser Gly Pro Glu Gly Val Pro His Tyr			
485	490	495	
Ala Glu Ala Asp Ile Val Asn Leu Gln Gly Val Thr Gly Gly Asn Thr			
500	505	510	
Tyr Ser Val Pro Ala Val Thr Met Asp Leu Leu Ser Gly Lys Arg Cys			

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<210> 1080
<211> 304
<212> Amino acid
<213> Homo sapiens
```

<400> 1080  
 Cys Ser Ala Ser Pro Leu Arg Pro Gly Leu Leu Ala Pro Asp Leu Leu  
 1 5 10 15  
 Tyr Leu Pro Gly Ala Gly Gln Pro Arg Arg Pro Glu Ala Glu Pro Gly

				20					25					30				
Gln	Lys	Pro	Val	Val	Pro	Thr	Leu	Tyr	Val	Thr	Glu	Ala	Glu	Ala	His			
		35					40					45						
Ser	Pro	Ala	Leu	Pro	Gly	Leu	Ser	Gly	Pro	Gln	Pro	Lys	Trp	Val	Glu			
	50					55					60							
Val	Glu	Glu	Thr	Ile	Glu	Val	Arg	Val	Lys	Lys	Met	Gly	Pro	Gln	Gly			
65					70					75					80			
Val	Ser	Pro	Thr	Thr	Glu	Val	Pro	Arg	Ser	Ser	Ser	Gly	His	Leu	Phe			
				85					90					95				
Thr	Leu	Pro	Gly	Ala	Thr	Pro	Gly	Gly	Asp	Pro	Asn	Ser	Asn	Asn	Ser			
			100					105					110					
Asn	Asn	Lys	Leu	Leu	Ala	Gln	Glu	Ala	Trp	Ala	Gln	Gly	Thr	Ala	Met			
		115					120					125						
Val	Gly	Val	Arg	Glu	Pro	Leu	Val	Phe	Arg	Val	Asp	Ala	Arg	Gly	Ser			
	130					135					140							
Val	Asp	Trp	Ala	Ala	Ser	Gly	Met	Gly	Ser	Leu	Glu	Glu	Glu	Gly	Thr			
145					150					155					160			
Met	Glu	Glu	Ala	Gly	Glu	Glu	Glu	Gly	Glu	Asp	Gly	Asp	Ala	Phe	Val			
				165					170					175				
Thr	Glu	Glu	Ser	Gln	Asp	Thr	His	Ser	Leu	Gly	Asp	Arg	Asp	Pro	Lys			
			180					185					190					
Ile	Leu	Thr	His	Asn	Gly	Arg	Met	Leu	Thr	Leu	Ala	Asp	Leu	Glu	Asp			
	195						200					205						
Tyr	Val	Pro	Gly	Glu	Gly	Glu	Thr	Phe	His	Cys	Gly	Gly	Pro	Gly	Pro			
	210					215					220							
Gly	Ala	Pro	Asp	Asp	Pro	Pro	Cys	Glu	Val	Ser	Val	Ile	Gln	Arg	Glu			
225					230					235					240			
Ile	Gly	Glu	Pro	Thr	Val	Gly	Ser	Leu	Cys	Cys	Ser	Ala	Trp	Gly	Met			
				245					250					255				
His	Trp	Val	Pro	Glu	Ala	Leu	Ser	Ala	Ser	Leu	Gly	Leu	Ser	Pro	Met			
			260					265					270					
Gly	Arg	His	His	Arg	Asp	Pro	Arg	Ser	Val	Ala	Leu	Arg	Ala	Pro	Pro			
		275					280					285						
Ser	Ser	Cys	Gly	Arg	Pro	Arg	Leu	Gly	Leu	Trp	Ala	Val	Leu	Pro	Gly			
	290					295					300				305			

<210> 1081

<211> 139

<212>Amino acid

<213> Homo sapiens

<400> 1081															
Gln 1	Gly	Leu	Ala	Ala 5	Glu	Phe	Leu	Gln	Val 10	Pro	Ala	Val	Thr	Arg 15	Ala
Tyr	Thr	Ala	Ala 20	Cys	Val	Leu	Thr	Thr 25	Ala	Ala	Val	Gln	Leu 30	Glu	Leu
Leu	Ser	Pro	Phe 35	Gln	Leu	Tyr	Phe 40	Asn	Pro	His	Leu 45	Val	Phe	Arg	Lys
Phe 50	Gln	Ala	Pro	Phe	Leu	Pro 55	Trp	Ala	Leu	Met 60	Gly	Phe	Ser	Leu	Leu
Leu 65	Gly	Asn	Ser	Ile 70	Leu	Val	Asp	Leu	Leu 75	Gly	Ile	Ala	Val	Gly 80	His
Ile	Tyr	Tyr	Phe 85	Leu	Glu	Asp	Val	Phe 90	Pro	Asn	Gln	Pro	Gly 95	Gly	Lys
Arg	Leu	Leu	Gln 100	Thr	Pro	Gly	Phe 105	Leu	Gly	Leu	Gln	Ser	Ser 110	Lys	Ala
Pro	Ala	Gly	Ser	Ser	Leu	Thr	Ile	Trp	Thr	Gln	Gln	Ser	Gln	Gly	Gly



115 120 125  
 Pro Gly Thr Ala Gly Glu Leu Ala Ala Pro Ser  
 130 135 139

<210> 1082

<211> 1105

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(1105)

<223> X = any amino acid or stop code

<400> 1082

Glu Lys Asn Ala Leu Glu Pro Thr Val Tyr Phe Gly Met Gly Val Xaa  
 1 5 10 15  
 Ala Pro Gln Val Pro Arg Phe Gln Gln Arg Ile Thr Gly Tyr Gln Tyr  
 20 25 30  
 Tyr Leu Gln Leu Arg Lys Asp Ile Trp Glu Glu Gly Ile Pro Cys Thr  
 35 40 45  
 Leu Glu Gln Pro Ile His Leu Ala Gly Leu Ala Val Gln Ala Ile Phe  
 50 55 60  
 Gly Asp Phe Asp Gln Tyr Glu Ser Gln Asp Phe Leu Gln Lys Phe Ala  
 65 70 75 80  
 Leu Phe Pro Val Gly Trp Leu Gln Asp Glu Lys Val Leu Glu Glu Ala  
 85 90 95  
 Thr Gln Lys Val Ala Leu Leu His Gln Lys Tyr Arg Gly Leu Thr Ala  
 100 105 110  
 Pro Asp Ala Glu Met Leu Tyr Met Gln Glu Val Glu Arg Met Asp Gly  
 115 120 125  
 Tyr Gly Glu Glu Ser Tyr Pro Ala Lys Asp Ser Gln Gly Ser Asp Ile  
 130 135 140  
 Ser Ile Gly Ala Cys Leu Glu Gly Ile Phe Val Lys His Lys Asn Gly  
 145 150 155 160  
 Arg His Pro Val Val Phe Arg Trp His Asp Ile Ala Asn Met Ser His  
 165 170 175  
 Asn Lys Ser Phe Phe Ala Leu Glu Leu Ala Asn Lys Glu Glu Thr Ile  
 180 185 190  
 Gln Phe Gln Thr Glu Asp Met Glu Thr Ala Lys Tyr Ile Trp Arg Leu  
 195 200 205  
 Cys Val Ala Arg His Lys Phe Tyr Arg Leu Asn Gln Cys Asn Leu Gln  
 210 215 220  
 Thr Gln Thr Val Thr Val Asn Pro Ile Arg Arg Arg Ser Ser Ser Arg  
 225 230 235 240  
 Met Ser Leu Pro Lys Pro Gln Pro Tyr Val Met Pro Pro Pro Pro Gln  
 245 250 255  
 Leu His Tyr Asn Gly His Tyr Thr Glu Pro Tyr Ala Ser Ser Gln Asp  
 260 265 270  
 Asn Leu Phe Val Pro Asn Gln Glu Gly Tyr Tyr Gly Gln Phe Gln Thr  
 275 280 285  
 Ser Leu Asn Arg Ala Gln Ile Asp Phe Asn Gly Arg Ile Arg Asn Ala  
 290 295 300  
 Ser Val Tyr Ser Ala His Ser Thr Asn Ser Leu Asn Asn Pro Gln Pro  
 305 310 315 320  
 Tyr Leu Gln Pro Ser Pro Met Ser Ser Asn Pro Ser Ile Thr Gly Ser  
 325 330 335  
 Asp Val Met Arg Pro Asp Tyr Leu Pro Ser His Arg His Ser Ala Val  
 340 345 350

Ile Pro Pro Ser Tyr Arg Pro Thr Pro Asp Tyr Glu Thr Val Met Lys  
           355                                  360                                  365  
 Gln Leu Asn Arg Gly Leu Val His Ala Glu Arg Gln Ser His Ser Leu  
           370                                  375                                  380  
 Arg Asn Leu Asn Ile Gly Ser Ser Tyr Ala Tyr Ser Arg Pro Ala Ala  
 385                                  390                                  395                                  400  
 Leu Val Tyr Ser Gln Pro Glu Ile Arg Glu His Ala Gln Leu Pro Ser  
                                   405                                  410                                  415  
 Pro Ala Ala Ala His Cys Pro Phe Ser Leu Ser Tyr Ser Phe His Ser  
                                   420                                  425                                  430  
 Pro Ser Pro Tyr Pro Tyr Pro Ala Glu Arg Arg Pro Val Val Gly Ala  
                                   435                                  440                                  445  
 Val Ser Val Pro Glu Leu Thr Asn Ala Gln Leu Gln Ala Gln Asp Tyr  
                                   450                                  455                                  460  
 Pro Ser Pro Asn Ile Met Arg Thr Gln Val Tyr Arg Pro Pro Pro Pro  
 465                                  470                                  475                                  480  
 Tyr Pro Pro Pro Arg Pro Ala Asn Ser Thr Pro Asp Leu Ser Arg His  
                                   485                                  490                                  495  
 Leu Tyr Ile Ser Ser Ser Asn Pro Asp Leu Ile Thr Arg Arg Val His  
                                   500                                  505                                  510  
 His Ser Val Gln Thr Phe Gln Glu Asp Ser Leu Pro Val Ala His Ser  
                                   515                                  520                                  525  
 Leu Gln Glu Val Ser Glu Pro Leu Thr Ala Ala Arg His Ala Gln Leu  
                                   530                                  535                                  540  
 His Lys Arg Asn Ser Ile Glu Val Ala Gly Leu Ser His Gly Leu Glu  
 545                                  550                                  555                                  560  
 Gly Leu Arg Leu Lys Glu Arg Thr Leu Ser Ala Ser Ala Ala Glu Val  
                                   565                                  570                                  575  
 Ala Pro Arg Ala Val Ser Val Gly Ser Gln Pro Ser Val Phe Thr Glu  
                                   580                                  585                                  590  
 Arg Thr Gln Arg Glu Gly Pro Glu Glu Ala Glu Gly Leu Arg Tyr Gly  
                                   595                                  600                                  605  
 His Lys Lys Ser Leu Ser Asp Ala Thr Met Leu Ile His Ser Ser Glu  
                                   610                                  615                                  620  
 Glu Glu Glu Asp Glu Asp Phe Glu Glu Glu Ser Gly Ala Arg Ala Pro  
 625                                  630                                  635                                  640  
 Pro Ala Arg Ala Arg Glu Pro Arg Pro Gly Leu Ala Gln Asp Pro Pro  
                                   645                                  650                                  655  
 Gly Cys Pro Arg Val Leu Leu Ala Gly Pro Leu His Ile Leu Glu Pro  
                                   660                                  665                                  670  
 Lys Ala His Val Pro Asp Ala Glu Lys Arg Met Met Asp Ser Ser Pro  
                                   675                                  680                                  685  
 Val Arg Thr Thr Ala Glu Ala Gln Arg Pro Trp Arg Asp Gly Leu Leu  
                                   690                                  695                                  700  
 Met Pro Ser Met Ser Glu Ser Asp Leu Thr Thr Ser Gly Arg Tyr Arg  
 705                                  710                                  715                                  720  
 Ala Arg Arg Asp Ser Leu Lys Lys Arg Pro Val Ser Asp Leu Leu Ser  
                                   725                                  730                                  735  
 Gly Lys Lys Asn Ile Val Glu Gly Leu Pro Pro Leu Gly Gly Met Lys  
                                   740                                  745                                  750  
 Lys Thr Arg Val Asp Ala Lys Lys Ile Gly Pro Leu Lys Leu Ala Ala  
                                   755                                  760                                  765  
 Leu Asn Gly Leu Ser Leu Ser Arg Val Pro Leu Pro Asp Glu Gly Lys  
                                   770                                  775                                  780  
 Glu Val Ala Thr Arg Ala Thr Asn Asp Glu Arg Cys Lys Ile Leu Glu  
 785                                  790                                  795                                  800  
 Gln Arg Leu Glu Gln Gly Met Val Phe Thr Glu Tyr Glu Arg Ile Leu  
                                   805                                  810                                  815  
 Lys Lys Arg Leu Val Asp Gly Glu Cys Ser Thr Ala Arg Leu Pro Glu  
                                   820                                  825                                  830  
 Asn Ala Glu Arg Asn Arg Phe Gln Asp Val Leu Pro Tyr Asp Asp Val  
                                   835                                  840                                  845  
 Arg Val Glu Leu Val Pro Thr Lys Glu Asn Asn Thr Gly Tyr Ile Asn  
                                   850                                  855                                  860

Ala Ser His Ile Lys Val Ser Val Ser Gly Ile Glu Trp Asp Tyr Ile  
 865 870 875 880  
 Ala Thr Gln Gly Pro Leu Gln Asn Thr Cys Gln Asp Phe Trp Gln Met  
 885 890 895  
 Val Trp Glu Gln Gly Ile Ala Ile Ile Ala Met Val Thr Ala Glu Glu  
 900 905 910  
 Glu Gly Gly Arg Glu Lys Ser Phe Arg Tyr Trp Pro Arg Leu Gly Ser  
 915 920 925  
 Arg His Asn Thr Val Thr Tyr Gly Arg Phe Lys Ile Thr Thr Arg Phe  
 930 935 940  
 Arg Thr Asp Ser Gly Cys Tyr Ala Thr Thr Gly Leu Lys Met Lys His  
 945 950 955 960  
 Leu Leu Thr Gly Gln Glu Arg Thr Val Trp His Leu Gln Tyr Thr Asp  
 965 970 975  
 Trp Pro Glu His Gly Cys Pro Glu Asp Leu Lys Gly Phe Leu Ser Tyr  
 980 985 990  
 Leu Glu Glu Ile Gln Ser Val Arg Arg His Thr Asn Ser Thr Ser Asp  
 995 1000 1005  
 Pro Gln Ser Pro Asn Pro Pro Leu Leu Val His Cys Ser Ala Gly Val  
 1010 1015 1020  
 Gly Arg Thr Gly Val Val Ile Leu Ser Glu Ile Met Ile Ala Cys Leu  
 1025 1030 1035 1040  
 Glu His Asn Glu Val Leu Asp Ile Pro Arg Val Leu Asp Met Leu Arg  
 1045 1050 1055  
 Gln Gln Arg Met Met Leu Val Gln Thr Leu Cys Gln Tyr Thr Phe Val  
 1060 1065 1070  
 Tyr Arg Val Leu Ile Gln Val Pro Glu Lys Ala Pro Arg Leu Ile Leu  
 1075 1080 1085  
 Ser Ser Pro Gln Phe Pro Tyr Gly Ala Gln Ser Cys Glu Ala Phe Thr  
 1090 1095 1100  
 Ala  
 1105

&lt;210&gt; 1083

&lt;211&gt; 99

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt; .

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(99)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1083

Arg Lys Lys Gln Lys Leu Ala Glu Glu Xaa Val Glu Leu Ser Lys Leu  
 1 5 10 15  
 Ala Asp Leu Lys Asp Ala Glu Ala Val Gln Lys Phe Phe Leu Glu Glu  
 20 25 30  
 Ile Xaa Leu Gly Glu Glu Ile Leu Ala Lys Gly Val Asp His Leu Thr  
 35 40 45  
 Asn Pro Ser Ala Val Cys Gly Gln Pro Gln Trp Leu Leu Gln Val Leu  
 50 55 60  
 Gln Gln Thr Leu Pro Leu Pro Val Ile Gln Met Leu Leu Thr Lys Pro  
 65 70 75 80  
 Leu Pro Val Asn Gln Arg Leu Val Ser Ala Gly Ser Leu Ala Lys Asp  
 85 90 95  
 Asp Val Glu  
 99

<210> 1084  
 <211> 206  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(206)  
 <223> X = any amino acid or stop code

<400> 1084  
 Ser Phe Cys Leu His Glu Phe Gly Trp Leu Gly Ser Ser Pro Gln Ser  
 1 5 10 15  
 Asp His Pro Val Pro Ala Leu Leu Gly Leu Gly Ala Phe Val His His  
 20 25 30  
 Ser Leu Leu Gln Val His Ser Ser Pro Gly Ala Gly Pro Val Ser Phe  
 35 40 45  
 Leu Phe Leu Gly Glu Ser Cys Ser Pro Val Asp Glu Pro Arg Cys Val  
 50 55 60  
 Pro Ser Cys Ala Phe Gly Phe Leu Ser Cys Phe Pro Leu Leu Asn Ser  
 65 70 75 80  
 Ala Ala Leu Glu Arg Gly Leu Phe Phe Phe Val Val Phe Phe Phe Leu  
 85 90 95  
 Glu Ser Gly Ser Cys Gln Val Ala Arg Ala Gly Val Arg Asp Arg Asp  
 100 105 110  
 Arg Gly Ser Leu Gln Pro Pro Pro Gly Leu Lys Gln Phe Cys Leu  
 115 120 125  
 Ser Leu Pro Ser Arg Trp Asp His Arg His Pro Pro Pro Leu Arg Val  
 130 135 140  
 Pro Xaa Phe Val Phe Val Phe Leu Val Glu Leu Gly Phe His His Val  
 145 150 155 160  
 Ala Gln Ala Gly Leu Lys Leu Leu Thr Leu Ser Asp Pro Pro Ala Pro  
 165 170 175  
 Ala Ser His Ser Ala Gly Ile Thr Gly Val Ser Gln Arg Asp Gln Pro  
 180 185 190  
 Val Leu Phe Leu Arg Trp Ala Ser Cys Ser Glu Leu Val Gly  
 195 200 205 206

<210> 1085  
 <211> 99  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1085  
 Glu Gly Phe Pro Gly Arg Ser Leu Ser Gly Gly Leu Cys Cys Arg Leu  
 1 5 10 15  
 Arg Arg Arg Phe Pro Ile Asp Gly Tyr Arg Pro Arg Arg Arg Arg Arg  
 20 25 30  
 Trp Ser Cys Cys Pro Ser Gly Val Arg Pro Val Arg Arg Met Ser Gln  
 35 40 45  
 Lys Ser Trp Ile Glu Ser Thr Leu Thr Lys Arg Glu Cys Val Tyr Ile  
 50 55 60  
 Ile Pro Ser Ser Lys Asp Pro His Arg Cys Leu Pro Gly Cys Gln Ile  
 65 70 75 80

Cys Gln Gln Leu Val Arg Arg Gly Phe Thr Val Leu Ala Arg Met Val  
                                     85                                    90                                    95  
 Ser Ile Ser  
                                     99

<210> 1086  
 <211> 53  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1086  
 Gln Asn Ser Thr Cys Leu Thr Ala Gln Thr His Ser Leu Leu Gln His  
   1                                    5                                    10                                    15  
 Gln Pro Leu Gln Leu Thr Thr Leu Leu Asp Gln Tyr Ile Arg Glu Gln  
                                     20                                    25                                    30  
 Arg Glu Lys Asp Ser Val Met Ser Ala Asn Gly Lys Pro Asp Pro Asp  
                                     35                                    40                                    45  
 Thr Val Pro Asp Ser  
                                     50                                    53

<210> 1087  
 <211> 250  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1087  
 Leu Asn Pro Trp Lys Asn Ala Leu Gln Asp Phe Cys Leu Pro Phe Leu  
   1                                    5                                    10                                    15  
 Arg Ile Thr Ser Leu Leu Gln His His Leu Phe Gly Glu Asp Leu Pro  
                                     20                                    25                                    30  
 Ser Cys Gln Glu Glu Glu Glu Phe Ser Val Leu Ala Ser Cys Leu Gly  
                                     35                                    40                                    45  
 Leu Leu Pro Thr Phe Tyr Gln Thr Glu His Pro Phe Ile Ser Ala Ser  
                                     50                                    55                                    60  
 Cys Leu Asp Trp Pro Val Pro Ala Phe Asp Ile Ile Thr His Trp Cys  
                                     65                                    70                                    75                                    80  
 Phe Glu Ile Lys Ser Phe Thr Glu Arg His Ala Glu Gln Gly Lys Ala  
                                     85                                    90                                    95  
 Leu Leu Ile Gln Glu Ser Lys Trp Lys Leu Pro His Leu Leu Gln Leu  
                                     100                                    105                                    110  
 Pro Glu Asn Tyr Asn Thr Ile Phe Gln Tyr Tyr His Arg Lys Thr Cys  
                                     115                                    120                                    125  
 Ser Val Cys Thr Lys Val Pro Lys Asp Pro Ala Val Cys Leu Val Cys  
                                     130                                    135                                    140  
 Gly Thr Phe Val Cys Leu Lys Gly Leu Cys Cys Lys Gln Gln Ser Tyr  
   145                                    150                                    155                                    160  
 Cys Glu Cys Val Leu His Ser Gln Asn Cys Gly Ala Gly Thr Gly Ile  
                                     165                                    170                                    175  
 Phe Leu Leu Ile Asn Ala Ser Val Ile Ile Ile Ile Arg Gly His Arg  
                                     180                                    185                                    190  
 Phe Cys Leu Trp Gly Ser Val Tyr Leu Asp Ala His Gly Glu Glu Asp  
                                     195                                    200                                    205  
 Arg Asp Leu Arg Arg Gly Lys Pro Leu Tyr Ile Cys Lys Glu Arg Tyr  
                                     210                                    215                                    220

Lys Val Leu Glu Gln Gln Trp Ile Ser His Thr Phe Asp His Ile Asn  
 225 230 235 240  
 Lys Arg Trp Gly Pro His Tyr Asn Gly Leu  
 245 250

<210> 1088  
 <211> 455  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1088  
 Lys Gly Gln Leu Val Asn Leu Leu Pro Pro Glu Asn Phe Pro Trp Cys  
 1 5 10 15  
 Gly Gly Ser Gln Gly Pro Arg Met Leu Arg Thr Cys Tyr Val Leu Cys  
 20 25 30  
 Ser Gln Ala Gly Pro Arg Ser Arg Gly Trp Gln Ser Leu Ser Phe Asp  
 35 40 45  
 Gly Gly Ala Phe His Leu Lys Gly Thr Gly Glu Leu Thr Arg Ala Leu  
 50 55 60  
 Leu Val Leu Arg Leu Cys Ala Trp Pro Pro Leu Val Thr His Gly Leu  
 65 70 75 80  
 Leu Leu Gln Ala Trp Ser Arg Arg Leu Leu Gly Ser Arg Leu Ser Gly  
 85 90 95  
 Ala Phe Leu Arg Ala Ser Val Tyr Gly Gln Phe Val Ala Gly Glu Thr  
 100 105 110  
 Ala Glu Glu Val Lys Gly Cys Val Gln Gln Leu Arg Thr Leu Ser Leu  
 115 120 125  
 Arg Pro Leu Leu Ala Val Pro Thr Glu Glu Glu Pro Asp Ser Ala Ala  
 130 135 140  
 Lys Ser Gly Glu Ala Trp Tyr Glu Gly Asn Leu Gly Ala Met Leu Arg  
 145 150 155 160  
 Cys Val Asp Leu Ser Arg Gly Leu Leu Glu Pro Pro Ser Leu Ala Glu  
 165 170 175  
 Ala Ser Leu Met Gln Leu Lys Val Thr Ala Leu Thr Ser Thr Arg Leu  
 180 185 190  
 Cys Lys Glu Leu Ala Ser Trp Val Arg Arg Pro Gly Ala Ser Leu Glu  
 195 200 205  
 Leu Ser Pro Glu Arg Leu Ala Glu Ala Met Asp Ser Gly Gln Asn Leu  
 210 215 220  
 Gln Val Ser Cys Leu Asn Ala Glu Gln Asn Gln His Leu Arg Ala Ser  
 225 230 235 240  
 Leu Ser Arg Leu His Arg Val Ala Gln Tyr Ala Arg Ala Gln His Val  
 245 250 255  
 Arg Leu Leu Val Asp Ala Glu Tyr Thr Ser Leu Asn Pro Ala Leu Ser  
 260 265 270  
 Leu Leu Val Ala Ala Leu Ala Val Arg Trp Asn Ser Pro Gly Glu Gly  
 275 280 285  
 Gly Pro Trp Val Trp Asn Thr Tyr Gln Ala Cys Leu Lys Asp Thr Phe  
 290 295 300  
 Glu Arg Leu Gly Arg Asp Ala Glu Ala Ala His Arg Ala Gly Leu Ala  
 305 310 315 320  
 Phe Gly Val Lys Leu Val Arg Gly Ala Tyr Leu Asp Lys Glu Arg Ala  
 325 330 335  
 Val Ala Gln Leu His Gly Met Glu Asp Pro Pro Thr Gln Ala Asp Tyr  
 340 345 350  
 Glu Ala Thr Ser Gln Ser Tyr Ser Arg Cys Leu Glu Leu Met Leu Thr  
 355 360 365  
 His Val Ala Arg His Gly Pro Met Cys His Leu Met Val Ala Ser His  
 370 375 380

```

Asn Glu Glu Ser Val Arg Gln Ala Thr Lys Gly Gln Ala Gly Tyr Val
385                      390                      395                      400
Val Tyr Lys Ser Ile Pro Tyr Gly Ser Leu Glu Glu Val Ile Pro Tyr
                      405                      410                      415
Leu Ile Arg Arg Ala Gln Glu Asn Arg Ser Val Leu Gln Gly Ala Arg
                      420                      425                      430
Arg Glu Gln Glu Leu Leu Ser Gln Lys Leu Trp Arg Arg Leu Leu Pro
                      435                      440                      445
Gly Cys Arg Arg Ile Pro His
                      450                      455

```

&lt;210&gt; 1089

&lt;211&gt; 243

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(243)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1089

```

Val Val Glu Phe Gly Glu Met Ser Thr Ala Arg Ala Pro Glu Gly Leu
1                      5                      10                      15
Arg Trp Phe Gln Leu Tyr Val His Pro Asp Leu Gln Leu Asn Lys Gln
                      20                      25                      30
Leu Ile Gln Arg Val Glu Ser Leu Gly Phe Lys Ala Leu Val Ile Thr
                      35                      40                      45
Leu Asp Thr Pro Val Cys Gly Asn Arg Arg His Asp Ile Arg Asn Gln
50                      55                      60
Leu Arg Arg Asn Leu Thr Leu Thr Asp Leu Gln Ser Pro Lys Lys Gly
65                      70                      75                      80
Asn Ala Ile Pro Tyr Phe Gln Met Thr Pro Ile Ser Thr Ser Leu Cys
                      85                      90                      95
Trp Asn Asp Leu Ser Trp Phe Gln Ser Ile Thr Arg Leu Pro Ile Ile
100                      105                      110
Leu Lys Gly Ile Leu Thr Lys Glu Asp Ala Glu Leu Ala Val Lys His
115                      120                      125
Asn Val Gln Gly Ile Ile Val Ser Asn His Gly Gly Arg Gln Leu Asp
130                      135                      140
Glu Val Leu Ala Ser Ile Asp Ala Leu Thr Glu Val Gly Ala Ala Glu
145                      150                      155                      160
Xaa Gly Asn Met Lys Tyr Tyr Leu Asp Ala Gly Val Arg Thr Gly Asn
165                      170                      175
Asp Val Gln Lys Ala Leu Ala Leu Gly Ala Lys Cys Ile Phe Leu Gly
180                      185                      190
Arg Pro Ile Leu Trp Gly Leu Ala Cys Lys Gly Glu His Gly Val Lys
195                      200                      205
Glu Val Leu Asn Ile Leu Thr Asn Glu Phe His Thr Ser Met Ala Leu
210                      215                      220
Thr Gly Cys Arg Ser Val Ala Glu Ile Asn Arg Asn Leu Val Gln Phe
225                      230                      235                      240
Ser Arg Leu
243

```

&lt;210&gt; 1090

&lt;211&gt; 90

&lt;212&gt;Amino acid

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(90)

<223> X = any amino acid or stop code

<400> 1090

```

Phe Phe Leu Arg Trp Ser Phe Thr Leu Leu Pro Arg Leu Glu Cys Gln
 1          5          10          15
Trp Leu Asn Leu Gly Ser Leu Gln Pro Pro Pro Gly Phe Lys Xaa
          20          25          30
Ser Ser Cys Leu Arg Leu Leu Ser Ser Trp Gly Leu Gln Val Pro Thr
          35          40          45
Ser Met Leu Gly Xaa Phe Phe Cys Ile Phe Ser Arg Glu Gly Ile Ser
          50          55          60
Pro Cys Trp Pro Gly Trp Ser Gln Thr Pro Lys Val Ile His Leu Pro
          65          70          75          80
Arg Pro Pro Arg Val Leu Arg Leu Gln Ala
          85          90

```

<210> 1091

<211> 259

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(259)

<223> X = any amino acid or stop code

<400> 1091

```

Leu Leu Cys Phe Val His Thr Ala Leu Gln Ser Phe Gln Gly Glu Leu
 1          5          10          15
Tyr Glu Pro His Val Val Ile Ala Ile Val Val Phe Leu Val Lys Leu
          20          25          30
Gly Ile Cys Lys Xaa Arg Ala Ser Trp Arg Lys Lys Val Thr Leu Val
          35          40          45
Val Lys Xaa Ser Leu Lys Ile Cys Phe Thr Lys Tyr Gly Ser Cys Tyr
          50          55          60
His Pro Gly Glu Lys Ser Ser Ser Trp Leu Phe Asn Xaa Arg Met Val
          65          70          75          80
Asn Asp Cys Leu Ala Thr Ser Cys Ser Asn Arg Ser Phe Val Ile Gln
          85          90          95
Gln Ile Pro Ser Ser Asn Leu Phe Met Val Val Val Asp Ser Ser Cys
          100          105          110
Leu Cys Glu Ser Val Ala Pro Ile Thr Met Ala Pro Ile Glu Ile Arg
          115          120          125
Tyr Ile Leu Leu Cys Ala Gly Pro Leu Thr Thr Thr Glu Thr Ser Lys
          130          135          140
Gly Tyr Gln Trp Xaa Gly Asn Leu Gly Glu Lys Tyr Xaa Arg Arg Lys
          145          150          155          160
Ile Thr Ser Phe Pro Leu Leu Glu Arg Glu Ser Ser Xaa Glu Ser Cys
          165          170          175
His Cys Gln Ile Leu Thr Ser Glu Met Gln Ser Arg Lys Lys Gln Ser

```



```

      180      185      190
Leu Glu Thr Cys Leu Asn Tyr Ser Gln His Asn Glu Ser Leu Lys Cys
      195      200      205
Glu Arg Leu Lys Ala Gln Lys Ile Arg Arg Arg Pro Glu Ser Cys His
      210      215      220
Gly Phe His Pro Glu Glu Asn Ala Arg Glu Cys Gly Gly Ala Pro Ser
225      230      235      240
Leu Gln Ala Gln Thr Val Leu Leu Leu Leu Pro Leu Leu Leu Met Leu
      245      250      255
Phe Ser Arg
      259

```

```

<210> 1092
<211> 117
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(117)
<223> X = any amino acid or stop code

```

```

<400> 1092
Val Pro Ser Pro Thr His Asp Pro Lys Pro Ala Glu Ala Pro Met Pro
  1      5      10      15
Ala Xaa Pro Ala Pro Pro Gly Pro Ala Ser Pro Gly Gly Ala Leu Glu
      20      25      30
Pro Pro Ala Ala Ala Arg Ala Gly Gly Ser Pro Thr Ala Val Arg Ser
      35      40      45
Ile Leu Thr Lys Glu Arg Arg Pro Glu Gly Gly Tyr Lys Ala Val Trp
      50      55      60
Phe Gly Glu Asp Ile Gly Thr Glu Ala Asp Val Val Val Leu Asn Ala
      65      70      75      80
Pro Thr Leu Asp Val Asp Gly Ala Ser Asp Ser Gly Ser Gly Asp Glu
      85      90      95
Gly Glu Gly Ala Gly Arg Gly Gly Gly Pro Tyr Asp Ala Pro Gly Gly
      100      105      110
Asp Asp Ser Tyr Ile
      115      117

```

```

<210> 1093
<211> 763
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1093
Leu Ile Ser Leu Ala Gly Pro Thr Asp Asp Ile Gln Ser Thr Gly Pro
  1      5      10      15
Gln Val His Ala Leu Asn Ile Leu Arg Ala Leu Phe Arg Asp Thr Arg
      20      25      30
Leu Gly Glu Asn Ile Ile Pro Tyr Val Ala Asp Gly Ala Lys Ala Ala
      35      40      45
Ile Leu Gly Phe Thr Ser Pro Val Trp Ala Val Arg Asn Ser Ser Thr
      50      55      60

```

Leu	Leu	Phe	Ser	Ala	Leu	Ile	Thr	Arg	Ile	Phe	Gly	Val	Lys	Arg	Ala	65	70	75	80
Lys	Asp	Glu	His	Ser	Lys	Thr	Asn	Arg	Met	Thr	Gly	Arg	Glu	Phe	Phe	85	90	95	
Ser	Arg	Phe	Pro	Glu	Leu	Tyr	Pro	Phe	Leu	Leu	Lys	Gln	Leu	Glu	Thr	100	105	110	
Val	Ala	Asn	Thr	Val	Asp	Ser	Asp	Met	Gly	Glu	Pro	Asn	Arg	His	Pro	115	120	125	
Ser	Met	Phe	Leu	Leu	Leu	Leu	Val	Leu	Glu	Arg	Leu	Tyr	Ala	Ser	Pro	130	135	140	
Met	Asp	Gly	Thr	Ser	Ser	Ala	Leu	Ser	Met	Gly	Pro	Phe	Val	Pro	Phe	145	150	155	160
Ile	Met	Arg	Cys	Gly	His	Ser	Pro	Val	Tyr	His	Ser	Arg	Glu	Met	Ala	165	170	175	
Ala	Arg	Ala	Leu	Val	Pro	Phe	Val	Met	Ile	Asp	His	Ile	Pro	Asn	Thr	180	185	190	
Ile	Arg	Thr	Leu	Leu	Ser	Thr	Leu	Pro	Ser	Cys	Thr	Asp	Gln	Cys	Phe	195	200	205	
Arg	Gln	Asn	His	Ile	His	Gly	Thr	Leu	Leu	Gln	Val	Phe	His	Leu	Val	210	215	220	
Gln	Ala	Tyr	Ser	Asp	Ser	Lys	His	Gly	Thr	Asn	Ser	Asp	Phe	Gln	His	225	230	235	240
Glu	Leu	Thr	Asp	Ile	Thr	Val	Cys	Thr	Lys	Ala	Lys	Leu	Trp	Leu	Ala	245	250	255	
Lys	Arg	Gln	Asn	Pro	Cys	Leu	Val	Thr	Arg	Ala	Val	Tyr	Ile	Asp	Ile	260	265	270	
Leu	Phe	Leu	Leu	Thr	Cys	Cys	Leu	Asn	Arg	Ser	Ala	Lys	Asp	Asn	Gln	275	280	285	
Pro	Val	Leu	Glu	Ser	Leu	Gly	Phe	Trp	Glu	Glu	Val	Arg	Gly	Ile	Ile	290	295	300	
Ser	Gly	Ser	Glu	Leu	Ile	Thr	Gly	Phe	Pro	Trp	Ala	Phe	Lys	Val	Pro	305	310	315	320
Gly	Leu	Pro	Gln	Tyr	Leu	Gln	Ser	Leu	Thr	Arg	Leu	Ala	Ile	Ala	Ala	325	330	335	
Val	Trp	Ala	Ala	Ala	Ala	Lys	Ser	Gly	Glu	Arg	Glu	Thr	Asn	Val	Pro	340	345	350	
Ile	Ser	Phe	Ser	Gln	Leu	Leu	Glu	Ser	Ala	Phe	Pro	Glu	Val	Arg	Ser	355	360	365	
Leu	Thr	Leu	Glu	Ala	Leu	Leu	Glu	Lys	Phe	Leu	Ala	Ala	Ala	Ser	Gly	370	375	380	
Leu	Gly	Glu	Lys	Gly	Val	Pro	Pro	Leu	Leu	Cys	Asn	Met	Gly	Glu	Lys	385	390	395	400
Phe	Leu	Leu	Leu	Ala	Met	Lys	Glu	Asn	His	Pro	Glu	Cys	Phe	Cys	Lys	405	410	415	
Ile	Leu	Lys	Ile	Leu	His	Cys	Met	Asp	Pro	Gly	Glu	Trp	Leu	Pro	Gln	420	425	430	
Thr	Glu	His	Cys	Val	His	Leu	Thr	Pro	Lys	Glu	Phe	Leu	Ile	Trp	Thr	435	440	445	
Met	Asp	Ile	Ala	Ser	Asn	Glu	Arg	Ser	Glu	Ile	Gln	Ser	Val	Ala	Leu	450	455	460	
Arg	Leu	Ala	Ser	Lys	Val	Ile	Ser	His	His	Met	Gln	Thr	Cys	Val	Glu	465	470	475	480
Asn	Arg	Glu	Leu	Ile	Ala	Ala	Glu	Leu	Lys	Gln	Trp	Val	Gln	Leu	Val	485	490	495	
Ile	Leu	Ser	Cys	Glu	Asp	His	Leu	Pro	Thr	Glu	Ser	Arg	Leu	Ala	Val	500	505	510	
Val	Glu	Val	Leu	Thr	Ser	Thr	Thr	Pro	Leu	Phe	Leu	Thr	Asn	Pro	His	515	520	525	
Pro	Ile	Leu	Glu	Leu	Gln	Asp	Thr	Leu	Ala	Leu	Trp	Lys	Cys	Val	Leu	530	535	540	
Thr	Leu	Leu	Gln	Ser	Glu	Gln	Ala	Val	Arg	Asp	Ala	Ala	Thr	Glu		545	550	555	560
Thr	Val	Thr	Thr	Ala	Met	Ser	Gln	Glu	Asn	Thr	Cys	Gln	Ser	Thr	Glu	565	570	575	

Phe Ala Phe Cys Gln Val Asp Ala Ser Ile Ala Leu Ala Leu Ala Leu  
                   580                                  585                                  590  
 Ala Val Leu Cys Asp Leu Leu Gln Gln Trp Asp Gln Leu Ala Pro Gly  
                   595                                  600                                  605  
 Leu Pro Ile Leu Leu Gly Trp Leu Leu Gly Glu Ser Asp Asp Leu Val  
                   610                                  615                                  620  
 Ala Cys Val Glu Ser Met His Gln Val Glu Glu Asp Tyr Leu Phe Glu  
                   625                                  630                                  635                                  640  
 Lys Ala Glu Val Asn Phe Trp Ala Glu Thr Leu Ile Phe Val Lys Tyr  
                                   645                                  650                                  655  
 Leu Cys Lys His Leu Phe Cys Leu Leu Ser Lys Ser Gly Trp Arg Pro  
                                   660                                  665                                  670  
 Pro Ser Pro Glu Met Leu Cys His Leu Gln Arg Met Val Ser Glu Gln  
                                   675                                  680                                  685  
 Cys His Leu Leu Ser Gln Phe Phe Arg Glu Leu Pro Pro Ala Ala Glu  
                   690                                  695                                  700  
 Phe Val Lys Thr Val Glu Phe Thr Arg Leu Arg Ile Gln Glu Glu Arg  
                                   710                                  715                                  720  
 Thr Leu Ala Cys Leu Arg Leu Leu Ala Phe Leu Glu Gly Lys Glu Gly  
                                   725                                  730                                  735  
 Glu Asp Thr Leu Val Leu Ser Val Trp Asp Ser Tyr Ala Glu Ser Arg  
                                   740                                  745                                  750  
 Gln Leu Thr Leu Pro Arg Thr Glu Ala Ala Cys  
                   755                                  760                                  763

&lt;210&gt; 1094

&lt;211&gt; 413

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1094

His Ala Phe Arg Pro Ile Ala Leu Gln Arg Gly Val Ser Phe Arg Gly  
   1                                  5                                  10                                  15  
 Cys Ser Asn Gln Tyr Ala Glu Ser Arg Arg Leu Gln Gly Glu Ser Gly  
                   20                                  25                                  30  
 Ser Arg Ala Phe Ala His Leu Met Glu Ser Leu Leu Gln His Leu Asp  
                   35                                  40                                  45  
 Arg Phe Ser Glu Leu Leu Ala Val Ser Ser Thr Thr Tyr Val Ser Thr  
                   50                                  55                                  60  
 Trp Asp Pro Ala Thr Val Arg Arg Ala Leu Gln Trp Ala Arg Tyr Leu  
                   65                                  70                                  75                                  80  
 Arg His Ile His Arg Arg Phe Gly Arg His Gly Pro Ile Arg Thr Ala  
                                   85                                  90                                  95  
 Leu Glu Arg Arg Leu His Asn Gln Trp Arg Gln Glu Gly Gly Phe Gly  
                   100                                  105                                  110  
 Arg Gly Pro Val Pro Gly Leu Ala Asn Phe Gln Ala Leu Gly His Cys  
                   115                                  120                                  125  
 Asp Val Leu Leu Ser Leu Arg Leu Leu Glu Asn Arg Ala Leu Gly Asp  
                   130                                  135                                  140  
 Ala Ala Arg Tyr His Leu Val Gln Gln Leu Phe Pro Gly Pro Gly Val  
                   145                                  150                                  155                                  160  
 Arg Asp Ala Asp Glu Glu Thr Leu Gln Glu Ser Leu Ala Arg Leu Ala  
                                   165                                  170                                  175  
 Arg Arg Arg Ser Ala Val His Met Leu Arg Phe Asn Gly Tyr Arg Glu  
                   180                                  185                                  190  
 Asn Pro Asn Leu Gln Glu Asp Ser Leu Met Lys Thr Gln Ala Glu Leu  
                   195                                  200                                  205  
 Leu Leu Glu Arg Leu Gln Glu Val Gly Lys Ala Glu Ala Glu Arg Pro  
                   210                                  215                                  220

```

Ala Arg Phe Leu Ser Ser Leu Trp Glu Arg Leu Pro Gln Asn Asn Phe
225                230                235                240
Leu Lys Val Ile Ala Val Ala Leu Leu Gln Pro Pro Leu Ser Arg Arg
                245                250                255
Pro Gln Glu Glu Leu Glu Pro Gly Ile His Lys Ser Pro Gly Glu Gly
                260                265                270
Ser Gln Val Leu Val His Trp Leu Leu Gly Asn Ser Glu Val Phe Ala
                275                280                285
Ala Phe Cys Arg Ala Leu Pro Ala Gly Leu Leu Thr Leu Val Thr Ser
                290                295                300
Arg His Pro Ala Leu Ser Pro Val Tyr Leu Gly Leu Leu Thr Asp Trp
305                310                315                320
Gly Gln Arg Leu His Tyr Asp Leu Gln Lys Gly Ile Trp Val Gly Thr
                325                330                335
Glu Ser Gln Asp Val Pro Trp Glu Glu Leu His Asn Arg Phe Gln Ser
                340                345                350
Leu Cys Gln Ala Pro Pro Pro Leu Lys Asp Lys Val Leu Thr Ala Leu
                355                360                365
Glu Thr Cys Lys Ala Gln Asp Gly Asp Phe Glu Glu Pro Gly Leu Ser
                370                375                380
Ile Trp Thr Asp Leu Leu Leu Ala Leu Arg Ser Gly Ala Phe Arg Lys
385                390                395                400
Arg Gln Val Leu Gly Leu Ser Ala Gly Leu Ser Ser Val
                405                410                413

```

&lt;210&gt; 1095

&lt;211&gt; 344

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(344)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1095

```

Ser His Leu Ile Gln His Gln Arg Ile His Thr Xaa Glu Xaa Ala His
1                5                10                15
Glu Cys Asn Glu Cys Gly Lys Ala Phe Ser Gln Thr Ser Cys Leu Ile
                20                25                30
Gln His His Lys Met His Arg Lys Glu Lys Ser Tyr Glu Cys Asn Glu
                35                40                45
Tyr Glu Gly Ser Phe Ser His Ser Ser Asp Leu Ile Leu Gln Gln Glu
                50                55                60
Val Leu Thr Arg Gln Lys Ala Phe Asp Cys Asp Val Trp Glu Lys Asn
65                70                75                80
Ser Ser Gln Arg Ala His Leu Val Gln His Gln Ser Ile His Thr Lys
                85                90                95
Glu Lys Pro His Glu Cys Asn Glu Asp Gly Lys Ile Phe Asn Gln Ile
                100                105                110
Gln Ala Leu Ile Gln His Leu Arg Val His Thr Arg Glu Lys Tyr Val
                115                120                125
Cys Thr Ala Cys Gly Lys Ala Phe Ser His Ser Ser Ala Ile Ala Gln
                130                135                140
His Gln Ile Ile His Thr Arg Glu Lys Pro Ser Glu Cys Asp Glu Xaa
145                150                155                160
Arg Lys Gly Ile Ser Val Lys Leu Leu Ile Asp Ser Cys Arg Ile Tyr
                165                170                175
Thr Ser Glu Lys Ser Tyr Lys Cys Ile Glu Cys Gly Lys Phe Phe Met

```

```

      180      185      190
Leu Leu Val Phe Ser Tyr Leu Ser His Ile Trp Arg Ile His Met Gly
      195      200      205
Ile Lys Phe His Cys Cys Asn Glu Cys Glu Lys Ala Ile Ser Gln Arg
      210      215      220
Asn Tyr Leu Val Xaa Tyr Gln Ile His Ala Met Gln Lys Asp Tyr Lys
225      230      235      240
Cys Asn Glu Ala Cys Met Cys Val Arg Arg Phe Ser His Asn Pro Thr
      245      250      255
Leu Ile Gln His Gln Arg Ile Tyr Thr Xaa Glu Asn Leu Phe Gly Cys
      260      265      270
Ser Lys Cys Gly Arg Ser Phe Asn Arg Ser Leu Thr Ser Leu Cys His
      275      280      285
Ile Arg Ile Ser Ile Arg Arg Gln Glu Phe Asp Val Thr Gln Met Glu
      290      295      300
Lys Leu Asp Thr Thr Phe Gln Ala Ser Thr Gln His Arg Asn Asn Gly
305      310      315      320
Glu Lys Ile Val Asp Tyr Leu Phe Met Lys Leu Leu Ile His Ser Pro
      325      330      335
Asn Leu Phe His Cys Thr Lys Ile
      340      344

```

```

<210> 1096
<211> 76
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1096
Ala Val Thr Leu Thr Ala Lys Ile Cys Ser Phe Thr Pro Glu Pro Ser
  1      5      10      15
Glu Thr Met Ser Pro Pro Ala Gly Thr Asn Asn Ser Arg His Ala Ala
      20      25      30
Leu Arg Ala Val Thr Leu Pro Val Lys Val Cys Ser Phe Thr Pro Glu
      35      40      45
Pro Ala Arg Ser Arg Thr His Gln Lys Glu Glu Thr Pro Asn Thr Ser
      50      55      60
Glu His Gln Lys Glu Gln Thr Pro Glu Ala Pro Pro
      65      70      75      76

```

```

<210> 1097
<211> 1462
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(1462)
<223> X = any amino acid or stop code

```

```

      <400> 1097
Met Ala Tyr Ser Trp Gln Thr Asp Pro Asn Pro Asn Glu Ser His Glu
  1      5      10      15
Lys Gln Tyr Glu His Gln Glu Phe Leu Phe Val Asn Gln Pro His Ser
      20      25      30

```

Ser	Ser	Gln	Val	Ser	Leu	Gly	Phe	Asp	Gln	Ile	Val	Asp	Glu	Ile	Ser	35	40	45
Gly	Lys	Ile	Pro	His	Tyr	Glu	Ser	Glu	Ile	Asp	Glu	Asn	Thr	Phe	Phe	50	55	60
Val	Pro	Thr	Ala	Pro	Lys	Trp	Asp	Ser	Thr	Gly	His	Ser	Leu	Asn	Glu	65	70	75
Ala	His	Gln	Ile	Ser	Leu	Asn	Glu	Phe	Thr	Ser	Lys	Ser	Arg	Glu	Leu	85	90	95
Ser	Trp	His	Gln	Val	Ser	Lys	Ala	Pro	Ala	Ile	Gly	Phe	Ser	Pro	Ser	100	105	110
Val	Leu	Pro	Lys	Pro	Gln	Asn	Thr	Asn	Lys	Glu	Cys	Ser	Trp	Gly	Ser	115	120	125
Pro	Ile	Gly	Lys	His	His	Gly	Ala	Asp	Asp	Ser	Arg	Phe	Ser	Ile	Leu	130	135	140
Ala	Pro	Ser	Phe	Thr	Ser	Leu	Asp	Lys	Ile	Asn	Leu	Glu	Lys	Glu	Leu	145	150	155
Glu	Asn	Glu	Asn	His	Asn	Tyr	His	Ile	Gly	Phe	Glu	Ser	Ser	Ile	Pro	165	170	175
Pro	Thr	Asn	Ser	Ser	Phe	Ser	Ser	Asp	Phe	Met	Pro	Lys	Glu	Glu	Asn	180	185	190
Lys	Arg	Ser	Gly	His	Val	Asn	Ile	Val	Glu	Pro	Ser	Leu	Met	Leu	Leu	195	200	205
Lys	Gly	Ser	Leu	Gln	Pro	Gly	Met	Trp	Glu	Ser	Thr	Trp	Gln	Lys	Asn	210	215	220
Ile	Glu	Ser	Ile	Gly	Cys	Ser	Ile	Gln	Leu	Val	Glu	Val	Pro	Gln	Ser	225	230	235
Ser	Asn	Thr	Ser	Leu	Ala	Ser	Phe	Cys	Asn	Lys	Val	Lys	Lys	Ile	Arg	245	250	255
Glu	Arg	Tyr	His	Ala	Ala	Asp	Val	Asn	Phe	Asn	Ser	Gly	Lys	Ile	Trp	260	265	270
Ser	Thr	Thr	Thr	Ala	Phe	Pro	Tyr	Gln	Leu	Phe	Ser	Lys	Thr	Lys	Phe	275	280	285
Asn	Ile	His	Ile	Phe	Ile	Asp	Asn	Ser	Thr	Gln	Pro	Leu	His	Phe	Met	290	295	300
Pro	Cys	Ala	Asn	Tyr	Leu	Val	Lys	Asp	Leu	Ile	Ala	Glu	Ile	Leu	His	305	310	315
Phe	Cys	Thr	Asn	Asp	Gln	Leu	Leu	Pro	Lys	Asp	His	Ile	Leu	Ser	Val	325	330	335
Trp	Gly	Ser	Glu	Glu	Phe	Leu	Gln	Asn	Asp	His	Cys	Leu	Gly	Ser	His	340	345	350
Lys	Met	Phe	Gln	Lys	Asp	Lys	Ser	Val	Ile	Gln	Leu	His	Leu	Gln	Lys	355	360	365
Ser	Arg	Glu	Ala	Pro	Gly	Lys	Leu	Ser	Arg	Lys	His	Glu	Glu	Asp	His	370	375	380
Ser	Gln	Phe	Tyr	Leu	Asn	Gln	Leu	Leu	Glu	Phe	Met	His	Ile	Trp	Lys	385	390	395
Val	Ser	Arg	Gln	Cys	Leu	Leu	Thr	Leu	Ile	Arg	Lys	Tyr	Asp	Phe	His	405	410	415
Leu	Lys	Tyr	Leu	Leu	Lys	Thr	Gln	Glu	Asn	Val	Tyr	Asn	Ile	Ile	Glu	420	425	430
Glu	Val	Lys	Lys	Ile	Cys	Ser	Val	Leu	Gly	Cys	Val	Glu	Thr	Lys	Gln	435	440	445
Ile	Thr	Asp	Ala	Val	Asn	Glu	Leu	Ser	Leu	Ile	Leu	Gln	Arg	Lys	Gly	450	455	460
Glu	Asn	Phe	Tyr	Gln	Ser	Ser	Glu	Thr	Ser	Ala	Lys	Gly	Leu	Ile	Glu	465	470	475
Lys	Val	Thr	Thr	Glu	Leu	Ser	Thr	Ser	Ile	Tyr	Gln	Leu	Ile	Asn	Val	485	490	495
Tyr	Cys	Asn	Ser	Phe	Tyr	Ala	Asp	Phe	Gln	Pro	Val	Asn	Val	Pro	Arg	500	505	510
Cys	Thr	Ser	Tyr	Leu	Asn	Pro	Gly	Leu	Pro	Ser	His	Leu	Ser	Phe	Thr	515	520	525
Val	Tyr	Ala	Ala	His	Asn	Ile	Pro	Glu	Thr	Trp	Val	His	Arg	Ile	Asn	530	535	540

Phe	Pro	Leu	Glu	Ile	Lys	Ser	Leu	Pro	Arg	Glu	Ser	Met	Leu	Thr	Val	545	550	555	560
Lys	Leu	Phe	Gly	Ile	Ala	Cys	Ala	Thr	Asn	Asn	Ala	Asn	Leu	Leu	Ala	565	570	575	
Trp	Thr	Cys	Leu	Pro	Leu	Phe	Pro	Lys	Glu	Lys	Ser	Ile	Leu	Gly	Ser	580	585	590	
Met	Leu	Phe	Ser	Met	Thr	Leu	Gln	Ser	Glu	Pro	Pro	Val	Glu	Met	Ile	595	600	605	
Thr	Pro	Gly	Val	Trp	Asp	Val	Ser	Gln	Pro	Ser	Pro	Val	Thr	Leu	Gln	610	615	620	
Ile	Asp	Phe	Pro	Ala	Thr	Gly	Trp	Glu	Tyr	Met	Lys	Pro	Asp	Ser	Glu	625	630	635	640
Glu	Asn	Arg	Ser	Asn	Leu	Glu	Glu	Pro	Leu	Lys	Glu	Cys	Ile	Lys	His	645	650	655	
Ile	Ala	Arg	Leu	Ser	Gln	Lys	Gln	Thr	Pro	Leu	Leu	Leu	Ser	Glu	Glu	660	665	670	
Lys	Lys	Arg	Tyr	Leu	Trp	Phe	Tyr	Arg	Phe	Tyr	Cys	Asn	Asn	Glu	Asn	675	680	685	
Cys	Ser	Leu	Pro	Leu	Val	Leu	Gly	Ser	Ala	Pro	Gly	Trp	Asp	Glu	Arg	690	695	700	
Thr	Val	Ser	Glu	Met	His	Thr	Ile	Leu	Arg	Arg	Trp	Thr	Phe	Ser	Gln	705	710	715	720
Pro	Leu	Glu	Ala	Leu	Gly	Leu	Leu	Thr	Ser	Ser	Phe	Pro	Asp	Gln	Glu	725	730	735	
Ile	Arg	Lys	Val	Ala	Val	Gln	Gln	Leu	Asp	Asn	Leu	Leu	Asn	Asp	Glu	740	745	750	
Leu	Leu	Glu	Tyr	Leu	Pro	Gln	Leu	Val	Gln	Ala	Val	Lys	Phe	Glu	Trp	755	760	765	
Asn	Leu	Glu	Ser	Pro	Leu	Val	Gln	Leu	Leu	Leu	His	Arg	Ser	Leu	Gln	770	775	780	
Ser	Ile	Gln	Val	Ala	His	Arg	Leu	Tyr	Trp	Leu	Leu	Lys	Asn	Ala	Glu	785	790	795	800
Asn	Glu	Ala	Tyr	Phe	Lys	Ser	Trp	Tyr	Gln	Lys	Leu	Leu	Ala	Ala	Leu	805	810	815	
Gln	Phe	Cys	Ala	Gly	Lys	Ala	Leu	Asn	Asp	Glu	Phe	Ser	Lys	Glu	Gln	820	825	830	
Lys	Leu	Ile	Lys	Ile	Leu	Gly	Asp	Ile	Gly	Glu	Arg	Val	Lys	Ser	Ala	835	840	845	
Ser	Asp	His	Gln	Arg	Gln	Glu	Val	Leu	Lys	Lys	Glu	Ile	Gly	Arg	Leu	850	855	860	
Glu	Glu	Phe	Phe	Gln	Asp	Val	Asn	Thr	Cys	His	Leu	Pro	Leu	Asn	Pro	865	870	875	880
Ala	Leu	Cys	Ile	Lys	Gly	Ile	Asp	His	Asp	Ala	Cys	Ser	Tyr	Phe	Thr	885	890	895	
Ser	Asn	Ala	Leu	Pro	Leu	Lys	Ile	Thr	Phe	Ile	Asn	Ala	Asn	Leu	Met	900	905	910	
Gly	Lys	Asn	Ile	Ser	Ile	Ile	Phe	Lys	Ala	Gly	Asp	Asp	Leu	Arg	Gln	915	920	925	
Asp	Met	Leu	Val	Leu	Gln	Leu	Ile	Gln	Val	Met	Asp	Asn	Ile	Trp	Leu	930	935	940	
Gln	Glu	Gly	Leu	Asp	Met	Gln	Met	Ile	Ile	Tyr	Arg	Cys	Leu	Ser	Thr	945	950	955	960
Gly	Lys	Asp	Gln	Arg	Leu	Val	Gln	Met	Val	Pro	Asp	Ala	Val	Thr	Leu	965	970	975	
Ala	Lys	Ile	His	Arg	His	Ser	Gly	Leu	Ile	Gly	Pro	Leu	Lys	Glu	Asn	980	985	990	
Thr	Ile	Lys	Lys	Trp	Phe	Ser	Gln	His	Asn	His	Leu	Lys	Ala	Asp	Tyr	995	1000	1005	
Glu	Lys	Ala	Leu	Arg	Asn	Phe	Phe	Tyr	Ser	Cys	Ala	Gly	Trp	Cys	Val	1010	1015	1020	
Val	Thr	Phe	Ile	Leu	Gly	Val	Cys	Asp	Arg	His	Asn	Asp	Asn	Ile	Met	1025	1030	1035	1040
Leu	Thr	Lys	Ser	Gly	His	Met	Phe	His	Ile	Asp	Phe	Gly	Lys	Phe	Leu	1045	1050	1055	

Gly His Ala Gln Thr Phe Gly Gly Ile Lys Arg Asp Arg Ala Pro Phe  
                   1060                  1065                  1070  
 Ile Phe Thr Ser Glu Met Glu Tyr Phe Ile Thr Glu Gly Gly Lys Asn  
                   1075                  1080                  1085  
 Pro Gln His Phe Gln Asp Phe Val Glu Leu Cys Cys Arg Ala Tyr Asn  
                   1090                  1095                  1100  
 Ile Ile Arg Lys His Ser Gln Leu Leu Leu Asn Leu Leu Glu Met Met  
 1105                  1110                  1115                  1120  
 Leu Tyr Ala Gly Leu Pro Glu Leu Ser Gly Ile Gln Asp Leu Lys Tyr  
                   1125                  1130                  1135  
 Val Tyr Asn Asn Leu Arg Pro Gln Asp Thr Asp Leu Glu Ala Thr Ser  
                   1140                  1145                  1150  
 His Phe Thr Lys Lys Ile Lys Glu Ser Leu Glu Cys Phe Pro Val Lys  
                   1155                  1160                  1165  
 Leu Asn Asn Leu Ile His Thr Leu Ala Gln Met Ser Ala Ile Ser Pro  
                   1170                  1175                  1180  
 Ala Lys Ser Thr Ser Gln Thr Phe Pro Gln Glu Ser Cys Leu Leu Ser  
 1185                  1190                  1195                  1200  
 Thr Thr Arg Ser Ile Glu Arg Ala Thr Ile Leu Gly Phe Ser Lys Lys  
                   1205                  1210                  1215  
 Ser Ser Asn Leu Tyr Leu Ile Gln Val Thr His Ser Asn Asn Glu Thr  
                   1220                  1225                  1230  
 Ser Leu Thr Glu Lys Ser Phe Glu Gln Phe Ser Lys Leu His Ser Gln  
                   1235                  1240                  1245  
 Leu Gln Lys Gln Phe Ala Ser Leu Thr Leu Pro Glu Phe Pro His Trp  
                   1250                  1255                  1260  
 Trp His Leu Pro Phe Thr Asn Ser Asp His Arg Arg Phe Arg Asp Leu  
 1265                  1270                  1275                  1280  
 Asn His Tyr Met Glu Gln Ile Leu Asn Val Ser His Glu Val Thr Asn  
                   1285                  1290                  1295  
 Ser Asp Cys Val Leu Ser Phe Phe Leu Ser Glu Ala Gly Gln Gln Thr  
                   1300                  1305                  1310  
 Val Glu Glu Ser Ser Pro Val Tyr Leu Gly Glu Lys Phe Pro Asp Lys  
                   1315                  1320                  1325  
 Lys Pro Lys Val Gln Leu Val Ile Ser Tyr Glu Asp Val Lys Leu Thr  
                   1330                  1335                  1340  
 Ile Leu Val Lys His Met Lys Asn Ile His Leu Pro Asp Gly Ser Ala  
 1345                  1350                  1355                  1360  
 Pro Ser Ala His Val Glu Phe Tyr Leu Leu Pro Tyr Pro Ser Glu Val  
                   1365                  1370                  1375  
 Arg Arg Arg Lys Thr Lys Ser Val Pro Lys Cys Thr Asp Pro Thr Tyr  
                   1380                  1385                  1390  
 Asn Glu Ile Val Val Tyr Asp Glu Val Thr Glu Leu Gln Gly His Val  
                   1395                  1400                  1405  
 Leu Met Leu Ile Val Lys Ser Lys Thr Val Phe Val Gly Ala Ile Asn  
                   1410                  1415                  1420  
 Ile Arg Leu Cys Ser Val Pro Leu Asp Lys Glu Lys Trp Tyr Pro Leu  
 1425                  1430                  1435                  1440  
 Gly Asn Ser Ile Ile Xaa Pro Leu Leu Leu Phe Tyr Thr Ser Asn Phe  
                   1445                  1450                  1455  
 Met Gln Ser Val Leu His  
                   1460                  1462

&lt;210&gt; 1098

&lt;211&gt; 111

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(111)

&lt;223&gt; X = any amino acid or stop code



```

<400> 1098
Phe Phe Leu Arg Trp Ser Leu Asp Ser Val Thr Gln Ala Gly Val Gln
 1           5           10           15
Ser His Asp Leu Ser Ser Leu Gln Pro Pro Pro Pro Gly Phe Lys Gln
          20           25           30
Ser Ser Leu Phe Gly Leu Pro Ser Ser Trp Glu Xaa Arg Trp Val Pro
          35           40           45
Pro Cys Pro Ala Asn Phe Phe Val Phe Leu Val Glu Thr Gly Phe Arg
          50           55           60
His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Asn Asp Leu Pro
          65           70           75           80
Val Ser Ala Cys Gln Ser Ala Gly Ile Thr Gly Val Thr Thr Val Pro
          85           90           95
Gln Arg Lys Ser Met Ile Leu Tyr Glu Val Thr Ile Cys Tyr Pro
          100           105           110 111

```

<210> 1099

<211> 1070

<212>Amino acid

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(1070)

<223> X = any amino acid or stop code

```

<400> 1099
Phe Val Arg Glu Ile Arg Gly Pro Ala Val Pro Arg Leu Thr Ser Ala
 1           5           10           15
Glu Asp Arg His Arg His Gly Pro His Ala His Ser Pro Glu Leu Gln
          20           25           30
Arg Thr Gly Arg Asp Tyr Ser Leu Asp Tyr Leu Pro Phe Arg Leu Trp
          35           40           45
Val Gly Ile Trp Val Ala Thr Phe Cys Leu Val Leu Val Ala Thr Glu
          50           55           60
Ala Ser Val Leu Val Arg Tyr Phe Thr Arg Phe Thr Glu Glu Gly Phe
          65           70           75           80
Cys Ala Leu Ile Ser Leu Ile Phe Ile Tyr Asp Ala Val Gly Lys Met
          85           90           95
Leu Asn Leu Thr His Thr Tyr Pro Ile Gln Lys Pro Gly Ser Ser Ala
          100           105           110
Tyr Gly Cys Leu Cys Gln Tyr Pro Gly Pro Gly Gly Asn Glu Ser Gln
          115           120           125
Trp Ile Arg Thr Arg Pro Lys Asp Arg Asp Asp Ile Val Ser Met Asp
          130           135           140
Leu Gly Leu Ile Asn Ala Ser Leu Leu Pro Pro Pro Glu Cys Thr Arg
          145           150           155           160
Gln Gly Gly His Pro Arg Gly Pro Gly Cys His Thr Val Pro Asp Ile
          165           170           175
Ala Phe Phe Ser Leu Leu Leu Phe Leu Thr Ser Phe Phe Phe Ala Met
          180           185           190
Ala Leu Lys Cys Val Lys Thr Ser Arg Phe Phe Pro Ser Val Val Arg
          195           200           205
Lys Gly Leu Ser Asp Phe Ser Ser Val Leu Ala Ile Leu Leu Gly Cys
          210           215           220

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Gly	Leu	Asp	Ala	Phe	Leu	Gly	Leu	Ala	Thr	Pro	Lys	Leu	Met	Val	Pro	225	230	235	240
Arg	Glu	Phe	Lys	Pro	Thr	Leu	Pro	Gly	Arg	Gly	Trp	Leu	Val	Ser	Pro	245	250	255	
Phe	Gly	Ala	Asn	Pro	Trp	Trp	Trp	Ser	Val	Ala	Ala	Ala	Leu	Pro	Ala	260	265	270	
Leu	Leu	Leu	Ser	Ile	Leu	Ile	Phe	Met	Asp	Gln	Gln	Ile	Thr	Ala	Val	275	280	285	
Ile	Leu	Asn	Arg	Met	Glu	Tyr	Arg	Leu	Gln	Lys	Gly	Ala	Gly	Phe	His	290	295	300	
Leu	Asp	Leu	Phe	Trp	Val	Ala	Val	Leu	Met	Leu	Leu	Thr	Ser	Ala	Leu	305	310	315	320
Gly	Leu	Pro	Trp	Tyr	Val	Ser	Ala	Thr	Val	Ile	Ser	Leu	Ala	His	Met	325	330	335	
Asp	Ser	Leu	Arg	Arg	Glu	Ser	Arg	Ala	Cys	Ala	Pro	Gly	Glu	Arg	Pro	340	345	350	
Asn	Phe	Leu	Gly	Ile	Arg	Glu	Gln	Arg	Leu	Thr	Gly	Leu	Val	Val	Phe	355	360	365	
Ile	Leu	Thr	Gly	Ala	Ser	Ile	Phe	Leu	Ala	Pro	Val	Leu	Lys	Phe	Ile	370	375	380	
Pro	Met	Pro	Val	Leu	Tyr	Gly	Ile	Phe	Leu	Tyr	Met	Gly	Val	Ala	Ala	385	390	395	400
Leu	Ser	Ser	Ile	Gln	Phe	Thr	Asn	Arg	Val	Lys	Leu	Leu	Leu	Met	Pro	405	410	415	
Ala	Lys	His	Gln	Pro	Asp	Leu	Leu	Leu	Arg	His	Val	Pro	Leu	Thr		420	425	430	
Arg	Val	His	Leu	Phe	Thr	Ala	Ile	Ser	Phe	Ala	Cys	Leu	Gly	Leu	Leu	435	440	445	
Trp	Ile	Ile	Lys	Ser	Thr	Pro	Ala	Ala	Ile	Ile	Phe	Pro	Leu	Met	Leu	450	455	460	
Leu	Gly	Leu	Val	Gly	Val	Arg	Lys	Ala	Leu	Glu	Arg	Val	Phe	Ser	Pro	465	470	475	480
Gln	Glu	Leu	Leu	Trp	Leu	Asp	Glu	Leu	Met	Pro	Glu	Glu	Glu	Arg	Ser	485	490	495	
Ile	Pro	Glu	Lys	Gly	Leu	Glu	Pro	Glu	His	Ser	Phe	Ser	Gly	Ser	Asp	500	505	510	
Ser	Glu	Asp	Ser	Glu	Leu	Met	Tyr	Gln	Pro	Lys	Ala	Pro	Glu	Ile	Asn	515	520	525	
Ile	Ser	Val	Asn	Xaa	Leu	Glu	Xaa	Glu	Phe	Val	Arg	Glu	Ile	Arg	Gly	530	535	540	
Pro	Ala	Val	Pro	Arg	Leu	Thr	Ser	Ala	Glu	Asp	Arg	His	Arg	His	Gly	545	550	555	560
Pro	His	Ala	His	Ser	Pro	Glu	Leu	Gln	Arg	Thr	Gly	Arg	Asp	Tyr	Ser	565	570	575	
Leu	Asp	Tyr	Leu	Pro	Phe	Arg	Leu	Trp	Val	Gly	Ile	Trp	Val	Ala	Thr	580	585	590	
Phe	Cys	Leu	Val	Leu	Val	Ala	Thr	Glu	Ala	Ser	Val	Leu	Val	Arg	Tyr	595	600	605	
Phe	Thr	Arg	Phe	Thr	Glu	Glu	Gly	Phe	Cys	Ala	Leu	Ile	Ser	Leu	Ile	610	615	620	
Phe	Ile	Tyr	Asp	Ala	Val	Gly	Lys	Met	Leu	Asn	Leu	Thr	His	Thr	Tyr	625	630	635	640
Pro	Ile	Gln	Lys	Pro	Gly	Ser	Ser	Ala	Tyr	Gly	Cys	Leu	Cys	Gln	Tyr	645	650	655	
Pro	Gly	Pro	Gly	Gly	Asn	Glu	Ser	Gln	Trp	Ile	Arg	Thr	Arg	Pro	Lys	660	665	670	
Asp	Arg	Asp	Asp	Ile	Val	Ser	Met	Asp	Leu	Gly	Leu	Ile	Asn	Ala	Ser	675	680	685	
Leu	Leu	Pro	Pro	Pro	Glu	Cys	Thr	Arg	Gln	Gly	Gly	His	Pro	Arg	Gly	690	695	700	
Pro	Gly	Cys	His	Thr	Val	Pro	Asp	Ile	Ala	Phe	Phe	Ser	Leu	Leu	Leu	705	710	715	720
Phe	Leu	Thr	Ser	Phe	Phe	Phe	Ala	Met	Ala	Leu	Lys	Cys	Val	Lys	Thr	725	730	735	

```

Ser Arg Phe Phe Pro Ser Val Val Arg Lys Gly Leu Ser Asp Phe Ser
      740      745      750
Ser Val Leu Ala Ile Leu Leu Gly Cys Gly Leu Asp Ala Phe Leu Gly
      755      760      765
Leu Ala Thr Pro Lys Leu Met Val Pro Arg Glu Phe Lys Pro Thr Leu
      770      775      780
Pro Gly Arg Gly Trp Leu Val Ser Pro Phe Gly Ala Asn Pro Trp Trp
      785      790      795      800
Trp Ser Val Ala Ala Ala Leu Pro Ala Leu Leu Leu Ser Ile Leu Ile
      805      810      815
Phe Met Asp Gln Gln Ile Thr Ala Val Ile Leu Asn Arg Met Glu Tyr
      820      825      830
Arg Leu Gln Lys Gly Ala Gly Phe His Leu Asp Leu Phe Cys Val Ala
      835      840      845
Val Leu Met Leu Leu Thr Ser Ala Leu Gly Leu Pro Trp Tyr Val Ser
      850      855      860
Ala Thr Val Ile Ser Leu Ala His Met Asp Ser Leu Arg Arg Glu Ser
      865      870      875      880
Arg Ala Cys Ala Pro Gly Glu Arg Pro Asn Phe Leu Gly Ile Arg Glu
      885      890      895
Gln Arg Leu Thr Gly Leu Val Val Phe Ile Leu Thr Gly Ala Ser Ile
      900      905      910
Phe Leu Ala Pro Val Leu Lys Phe Ile Pro Met Pro Val Leu Tyr Gly
      915      920      925
Ile Phe Leu Tyr Met Gly Val Ala Ala Leu Ser Ser Ile Gln Phe Thr
      930      935      940
Asn Arg Val Lys Leu Leu Leu Asp Ala Ser Lys Thr Pro Ala Arg Pro
      945      950      955      960
Ala Thr Leu Ala Ala Cys Ala Ser Asp Gln Gly Pro Pro Leu His Ser
      965      970      975
His Gln Leu Cys Pro Val Trp Gly Cys Phe Gly Ile Ile Lys Ser Thr
      980      985      990
Pro Ala Ala Ile Ile Phe Pro Leu Met Leu Leu Gly Leu Val Gly Val
      995      1000      1005
Arg Lys Ala Leu Glu Arg Val Phe Ser Pro Gln Glu Leu Leu Trp Leu
      1010      1015      1020
Asp Glu Leu Met Pro Glu Glu Glu Arg Ser Ile Pro Glu Lys Gly Leu
      1025      1030      1035      1040
Glu Pro Glu His Ser Phe Ser Gly Ser Asp Ser Glu Asp Ser Glu Leu
      1045      1050      1055
Met Tyr Gln Pro Lys Ala Pro Glu Ile Asn Ile Ser Val Asn
      1060      1065      1070

```

&lt;210&gt; 1100

&lt;211&gt; 875

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(875)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1100

```

Met Gly Leu Lys Ala Arg Arg Ala Ala Gly Ala Ala Gly Gly Gly Gly
  1           5           10           15
Asp Gly Gly Gly Gly Gly Gly Gly Ala Ala Asn Pro Ala Gly Gly Asp
      20           25           30
Ala Ala Ala Ala Gly Asp Glu Glu Arg Lys Val Gly Leu Ala Pro Gly

```

		35					40					45					
Asp	Val	Glu	Gln	Val	Thr	Leu	Ala	Leu	Gly	Ala	Gly	Ala	Asp	Lys	Asp		
	50					55					60						
Gly	Thr	Leu	Leu	Leu	Glu	Gly	Gly	Gly	Arg	Asp	Glu	Gly	Gln	Arg	Arg		
65					70					75					80		
Thr	Pro	Gln	Gly	Ile	Gly	Leu	Leu	Ala	Lys	Thr	Pro	Leu	Ser	Arg	Pro		
				85					90					95			
Val	Lys	Arg	Asn	Ala	Lys	Tyr	Arg	Arg	Ile	Gln	Thr	Leu	Ile	Ile	Tyr		
			100					105					110				
Asp	Ala	Leu	Glu	Arg	Pro	Arg	Gly	Trp	Ala	Leu	Leu	Tyr	His	Ala	Leu		
	115						120					125					
Val	Phe	Leu	Ile	Val	Leu	Gly	Cys	Leu	Ile	Leu	Ala	Val	Leu	Thr	Thr		
	130					135					140						
Phe	Lys	Glu	Tyr	Glu	Thr	Val	Ser	Gly	Asp	Trp	Leu	Leu	Leu	Leu	Glu		
145					150					155					160		
Thr	Phe	Ala	Ile	Phe	Ile	Phe	Gly	Ala	Glu	Phe	Ala	Leu	Arg	Ile	Trp		
				165					170					175			
Ala	Ala	Gly	Cys	Cys	Cys	Arg	Tyr	Lys	Gly	Trp	Arg	Gly	Arg	Leu	Lys		
			180					185					190				
Phe	Ala	Arg	Lys	Pro	Leu	Cys	Met	Leu	Asp	Ile	Phe	Val	Leu	Ile	Ala		
	195						200					205					
Ser	Val	Pro	Val	Val	Ala	Val	Gly	Asn	Gln	Gly	Asn	Val	Leu	Ala	Thr		
	210					215					220						
Ser	Leu	Arg	Ser	Leu	Arg	Phe	Leu	Gln	Ile	Leu	Arg	Met	Leu	Arg	Asp		
225					230					235					240		
Gly	Pro	Gly	Glu	Gly	Gly	Thr	Trp	Lys	Leu	Leu	Gly	Ser	Ala	Ile	Cys		
				245					250					255			
Ala	His	Ser	Lys	Glu	Leu	Ile	Thr	Ala	Trp	Tyr	Ile	Gly	Phe	Leu	Thr		
			260					265					270				
Leu	Ile	Leu	Ser	Ser	Phe	Leu	Val	Tyr	Leu	Val	Glu	Lys	Asp	Val	Pro		
			275				280					285					
Glu	Val	Asp	Ala	Gln	Gly	Glu	Glu	Met	Lys	Glu	Glu	Phe	Glu	Thr	Tyr		
	290					295					300						
Ala	Asp	Ala	Leu	Trp	Trp	Gly	Leu	Ile	Thr	Leu	Ala	Thr	Ile	Gly	Tyr		
305					310					315					320		
Gly	Asp	Lys	Thr	Pro	Lys	Thr	Trp	Glu	Gly	Arg	Leu	Ile	Ala	Ala	Thr		
				325					330					335			
Phe	Ser	Leu	Ile	Gly	Val	Ser	Phe	Phe	Ala	Leu	Pro	Ala	Gly	Ile	Leu		
			340					345					350				
Gly	Ser	Gly	Leu	Ala	Leu	Lys	Val	Gln	Glu	Gln	His	Arg	Gln	Lys	His		
			355				360					365					
Phe	Glu	Lys	Arg	Arg	Lys	Pro	Ala	Ala	Glu	Leu	Ile	Gln	Ala	Ala	Trp		
	370					375											

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545          550          555          560
Arg Ile Lys Tyr Leu Gln Thr Arg Ile Asp Met Ile Phe Thr Pro Gly
          565          570          575
Pro Pro Ser Thr Pro Lys His Lys Lys Ser Gln Lys Gly Ser Ala Phe
          580          585          590
Thr Phe Pro Ser Gln Gln Ser Pro Arg Asn Glu Pro Tyr Val Ala Arg
          595          600          605
Pro Ser Thr Ser Glu Ile Glu Asp Gln Arg His Xaa Trp Gly Lys Phe
          610          615          620
Val Lys Ser Leu Lys Gly Gln Val Gln Gly Leu Gly Arg Lys Leu Asp
625          630          635          640
Phe Leu Val Asp Met His Met Gln His Met Glu Arg Leu Gln Val Gln
          645          650          655
Val Thr Glu Tyr Tyr Pro Thr Lys Gly Thr Ser Ser Pro Ala Glu Ala
          660          665          670
Glu Lys Lys Glu Asp Asn Arg Tyr Ser Asp Leu Lys Thr Ile Ile Cys
          675          680          685
Asn Tyr Ser Glu Thr Gly Pro Pro Glu Pro Pro Tyr Ser Phe His Gln
          690          695          700
Val Thr Ile Asp Lys Val Ser Pro Tyr Gly Phe Phe Ala His Asp Pro
705          710          715          720
Val Asn Leu Pro Arg Gly Gly Pro Ser Ser Gly Lys Val Gln Ala Thr
          725          730          735
Pro Pro Ser Ser Ala Thr Thr Tyr Val Glu Arg Pro Thr Val Leu Pro
          740          745          750
Ile Leu Thr Leu Leu Asp Ser Arg Val Ser Cys His Ser Gln Ala Asp
          755          760          765
Leu Gln Gly Pro Tyr Ser Asp Arg Ile Ser Pro Arg Gln Arg Arg Ser
          770          775          780
Ile Thr Arg Asp Ser Asp Thr Pro Leu Ser Leu Met Ser Val Asn His
785          790          795          800
Glu Glu Leu Glu Arg Ser Pro Ser Gly Phe Ser Ile Ser Gln Asp Arg
          805          810          815
Asp Asp Tyr Val Phe Gly Pro Asn Gly Gly Ser Ser Trp Met Arg Glu
          820          825          830
Lys Arg Tyr Leu Ala Glu Gly Glu Thr Asp Thr Asp Thr Asp Pro Phe
          835          840          845
Thr Pro Ser Gly Ser Met Pro Leu Ser Ser Thr Gly Asp Gly Ile Ser
          850          855          860
Asp Ser Val Trp Thr Pro Ser Asn Lys Pro Ile
865          870          875

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&lt;210&gt; 1101

&lt;211&gt; 3530

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(3530)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1101

```

Arg Thr Arg Gly Ile Ile Glu Phe Asp Pro Lys Tyr Thr Ala Phe Glu
 1          5          10          15
Val Glu Glu Asp Val Gly Leu Ile Met Ile Pro Val Val Arg Leu His
          20          25          30
Gly Thr Tyr Gly Tyr Val Thr Ala Asp Phe Ile Ser Gln Ser Ser Ser
          35          40          45

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Ala	Ser	Pro	Gly	Gly	Val	Asp	Tyr	Ile	Leu	His	Gly	Ser	Thr	Val	Thr
50						55					60				
Phe	Gln	His	Gly	Gln	Asn	Leu	Ser	Phe	Ile	Asn	Ile	Ser	Ile	Ile	Asp
65					70					75					80
Asp	Asn	Glu	Ser	Glu	Phe	Glu	Glu	Pro	Ile	Glu	Ile	Leu	Leu	Thr	Gly
				85					90					95	
Ala	Thr	Gly	Gly	Ala	Val	Leu	Gly	Arg	His	Leu	Val	Ser	Arg	Ile	Ile
			100					105					110		
Ile	Ala	Lys	Ser	Asp	Ser	Pro	Phe	Gly	Val	Ile	Arg	Phe	Leu	Asn	Gln
	115						120					125			
Ser	Lys	Ile	Ser	Ile	Ala	Asn	Pro	Asn	Ser	Thr	Met	Ile	Leu	Ser	Leu
	130					135					140				
Val	Leu	Glu	Arg	Thr	Gly	Gly	Leu	Leu	Gly	Glu	Ile	Gln	Val	Asn	Trp
145					150					155					160
Glu	Thr	Val	Gly	Pro	Asn	Ser	Gln	Glu	Ala	Leu	Leu	Pro	Gln	Asn	Arg
				165					170					175	
Asp	Ile	Ala	Asp	Pro	Val	Ser	Gly	Leu	Phe	Tyr	Phe	Gly	Glu	Gly	Glu
			180					185					190		
Gly	Gly	Val	Arg	Thr	Ile	Ile	Leu	Thr	Ile	Tyr	Pro	His	Glu	Glu	Ile
		195					200					205			
Glu	Val	Glu	Glu	Thr	Phe	Ile	Ile	Lys	Leu	His	Leu	Val	Lys	Gly	Glu
	210					215					220				
Ala	Lys	Leu	Asp	Ser	Arg	Ala	Lys	Asp	Val	Thr	Leu	Thr	Ile	Gln	Glu
225					230					235					240
Phe	Gly	Asp	Pro	Asn	Gly	Val	Val	Gln	Phe	Ala	Pro	Glu	Thr	Leu	Ser
				245					250					255	
Lys	Lys	Thr	Tyr	Ser	Glu	Pro	Leu	Ala	Leu	Glu	Gly	Pro	Leu	Leu	Ile
			260					265					270		
Thr	Phe	Phe	Val	Arg	Arg	Val	Lys	Gly	Thr	Phe	Gly	Glu	Ile	Met	Val
		275					280					285			
Tyr	Trp	Glu	Leu	Ser	Ser	Glu	Phe	Asp	Ile	Thr	Glu	Asp	Phe	Leu	Ser
	290				295						300				
Thr	Ser	Gly	Phe	Phe	Thr	Ile	Ala	Asp	Gly	Glu	Ser	Glu	Ala	Ser	Phe
305					310					315					320
Asp	Val	His	Leu	Leu	Pro	Asp	Glu	Val	Pro	Glu	Ile	Glu	Glu	Asp	Tyr
				325					330					335	
Val	Ile	Gln	Leu	Val	Ser	Val	Glu	Gly	Gly	Ala	Glu	Leu	Asp	Leu	Glu
			340					345					350		
Lys	Ser	Ile	Thr	Trp	Phe	Ser	Val	Tyr	Ala	Asn	Asp	Asp	Pro	His	Gly
	355					360					365				
Val	Phe	Ala	Leu	Tyr	Ser	Asp	Arg	Gln	Ser	Ile	Leu	Ile	Gly	Gln	Asn
	370					375					380				
Leu	Ile	Arg	Ser	Ile	Gln	Ile	Asn	Ile	Thr	Arg	Leu	Ala	Gly	Thr	Phe
385					390					395					400
Gly	Asp	Val	Ala	Val	Gly	Leu	Arg	Ile	Ser	Ser	Asp	His	Lys	Glu	Gln
				405				410						415	
Pro	Ile	Val	Thr	Glu	Asn	Ala	Glu	Arg	Gln	Leu	Val	Val	Lys	Asp	Gly
			420					425					430		
Ala	Thr	Tyr	Lys	Val	Asp	Val	Val	Pro	Ile	Lys	Asn	Gln	Val	Phe	Leu
	435					440						445			
Ser	Leu	Gly	Ser	Asn	Phe	Thr	Leu	Gln	Leu	Val	Thr	Val	Met	Leu	Val
	450					455					460				
Gly	Gly	Arg	Phe	Tyr	Gly	Met	Pro	Thr	Ile	Leu	Gln	Glu	Ala	Lys	Ser
465					470					475					480
Ala	Val	Leu	Pro	Val	Ser	Glu	Lys	Ala	Ala	Asn	Ser	Gln	Val	Gly	Phe
				485				490						495	
Glu	Ser	Thr	Ala	Phe	Gln	Leu	Met	Asn	Ile	Thr	Ala	Gly	Thr	Ser	His
			500					505					510		
Val	Met	Ile	Ser	Arg	Arg	Gly	Thr	Tyr	Gly	Ala	Leu	Ser	Val	Ala	Trp
	515					520						525			
Thr	Thr	Gly	Tyr	Ala	Pro	Gly	Leu	Glu	Ile	Pro	Glu	Phe	Ile	Val	Val
	530					535					540				
Gly	Asn	Met	Thr	Pro	Thr	Leu	Gly	Ser	Leu	Ser	Phe	Ser	His	Gly	Glu
545					550					555					560

Gln Arg Lys Gly Val Phe Leu Trp Thr Phe Pro Ser Pro Gly Trp Pro  
 565 570 575  
 Glu Ala Phe Val Leu His Leu Ser Gly Val Gln Ser Ser Ala Pro Gly  
 580 585 590  
 Gly Ala Gln Leu Arg Ser Gly Phe Ile Val Ala Glu Ile Glu Pro Met  
 595 600 605  
 Gly Val Phe Gln Phe Ser Thr Ser Ser Arg Asn Ile Ile Val Ser Glu  
 610 615 620  
 Asp Thr Gln Met Ile Arg Leu His Val Gln Arg Leu Phe Gly Phe His  
 625 630 635 640  
 Ser Asp Leu Ile Lys Val Ser Tyr Gln Thr Thr Ala Gly Ser Ala Lys  
 645 650 655  
 Pro Leu Glu Asp Phe Glu Pro Val Gln Asn Gly Glu Leu Phe Phe Gln  
 660 665 670  
 Lys Phe Gln Thr Glu Val Asp Phe Glu Ile Thr Ile Ile Asn Asp Gln  
 675 680 685  
 Leu Ser Glu Ile Glu Glu Phe Phe Tyr Ile Asn Leu Thr Ser Val Glu  
 690 695 700  
 Ile Arg Gly Leu Gln Lys Phe Asp Val Asn Trp Ser Pro Arg Leu Asn  
 705 710 715 720  
 Leu Asp Phe Ser Val Ala Val Ile Thr Ile Leu Asp Asn Asp Asp Leu  
 725 730 735  
 Ala Gly Met Asp Ile Ser Phe Pro Glu Thr Thr Val Ala Val Ala Val  
 740 745 750  
 Asp Thr Thr Leu Ile Pro Val Glu Thr Glu Ser Thr Thr Tyr Leu Ser  
 755 760 765  
 Thr Ser Lys Thr Thr Thr Ile Leu Gln Pro Thr Asn Val Val Ala Ile  
 770 775 780  
 Val Thr Glu Ala Thr Gly Val Ser Ala Ile Pro Glu Lys Leu Val Thr  
 785 790 795 800  
 Leu His Gly Thr Pro Ala Val Ser Glu Lys Pro Asp Val Ala Thr Val  
 805 810 815  
 Thr Ala Asn Val Ser Ile His Gly Thr Phe Ser Leu Gly Pro Ser Ile  
 820 825 830  
 Val Tyr Ile Glu Glu Glu Met Lys Asn Gly Thr Phe Asn Thr Ala Glu  
 835 840 845  
 Val Leu Ile Arg Arg Thr Gly Gly Phe Thr Gly Asn Val Ser Ile Thr  
 850 855 860  
 Val Lys Thr Phe Gly Glu Arg Cys Ala Gln Met Glu Pro Asn Ala Leu  
 865 870 875 880  
 Pro Phe Arg Gly Ile Tyr Gly Ile Ser Asn Leu Thr Trp Ala Val Glu  
 885 890 895  
 Glu Glu Asp Phe Glu Glu Gln Thr Leu Thr Leu Ile Phe Leu Asp Gly  
 900 905 910  
 Glu Arg Glu Arg Lys Val Ser Val Gln Ile Leu Asp Asp Asp Glu Pro  
 915 920 925  
 Glu Gly Gln Glu Phe Phe Tyr Val Phe Leu Thr Asn Pro Gln Gly Gly  
 930 935 940  
 Ala Gln Ile Val Glu Gly Lys Asp Asp Thr Gly Phe Ala Ala Phe Ala  
 945 950 955 960  
 Met Val Ile Ile Thr Gly Ser Asp Leu His Asn Gly Ile Ile Gly Phe  
 965 970 975  
 Ser Glu Glu Ser Gln Ser Gly Leu Glu Leu Arg Glu Gly Ala Val Met  
 980 985 990  
 Arg Arg Leu His Leu Ile Val Thr Arg Gln Pro Asn Arg Ala Phe Glu  
 995 1000 1005  
 Asp Val Lys Val Phe Trp Arg Val Thr Leu Asn Lys Thr Val Val Val  
 1010 1015 1020  
 Leu Gln Lys Asp Gly Val Asn Leu Met Glu Glu Leu Gln Ser Val Ser  
 1025 1030 1035 1040  
 Gly Thr Thr Thr Cys Thr Met Gly Gln Thr Lys Cys Phe Ile Ser Ile  
 1045 1050 1055  
 Glu Leu Lys Pro Glu Lys Val Pro Gln Val Glu Val Tyr Phe Phe Val  
 1060 1065 1070

Glu Leu Tyr Glu Ala Thr Ala Gly Ala Ala Ile Asn Asn Ser Ala Arg  
 1075 1080 1085  
 Phe Ala Gln Ile Lys Ile Leu Glu Ser Asp Glu Ser Gln Ser Leu Val  
 1090 1095 1100  
 Tyr Phe Ser Val Gly Ser Arg Leu Ala Val Ala His Lys Lys Ala Thr  
 1105 1110 1115 1120  
 Leu Ile Ser Leu Gln Val Ala Arg Asp Ser Gly Thr Gly Leu Met Met  
 1125 1130 1135  
 Ser Val Asn Phe Ser Thr Gln Glu Leu Arg Ser Ala Glu Thr Ile Gly  
 1140 1145 1150  
 Arg Thr Ile Ile Ser Pro Ala Ile Ser Gly Lys Asp Phe Val Ile Thr  
 1155 1160 1165  
 Glu Gly Thr Leu Val Phe Glu Pro Gly Gln Arg Ser Thr Val Leu Asp  
 1170 1175 1180  
 Val Ile Leu Thr Pro Glu Thr Gly Ser Leu Asn Ser Phe Pro Lys Arg  
 1185 1190 1195 1200  
 Phe Gln Ile Val Leu Phe Asp Pro Lys Gly Gly Ala Arg Ile Asp Lys  
 1205 1210 1215  
 Val Tyr Gly Thr Ala Asn Ile Thr Leu Val Ser Asp Ala Asp Ser Gln  
 1220 1225 1230  
 Ala Ile Trp Gly Leu Ala Asp Gln Leu His Gln Pro Val Asn Asp Asp  
 1235 1240 1245  
 Ile Leu Asn Arg Val Leu His Thr Ile Ser Met Lys Val Ala Thr Glu  
 1250 1255 1260  
 Asn Thr Asp Glu Gln Leu Ser Ala Met Met His Leu Ile Glu Lys Ile  
 1265 1270 1275 1280  
 Thr Thr Glu Gly Lys Ile Gln Ala Phe Ser Val Ala Ser Arg Thr Leu  
 1285 1290 1295  
 Phe Tyr Glu Ile Leu Cys Ser Leu Ile Asn Pro Lys Arg Lys Asp Thr  
 1300 1305 1310  
 Arg Gly Phe Ser His Phe Ala Glu Leu Thr Glu Asn Phe Ala Phe Ser  
 1315 1320 1325  
 Leu Leu Thr Asn Val Thr Cys Gly Ser Pro Gly Glu Lys Ser Lys Thr  
 1330 1335 1340  
 Ile Leu Asp Ser Cys Pro Tyr Leu Ser Ile Leu Ala Leu His Trp Tyr  
 1345 1350 1355 1360  
 Pro Gln Gln Ile Asn Gly His Lys Phe Glu Gly Lys Glu Gly Asp Tyr  
 1365 1370 1375  
 Ile Arg Ile Pro Glu Arg Leu Leu Asp Val Gln Asp Ala Glu Ile Met  
 1380 1385 1390  
 Ala Gly Lys Ser Thr Cys Lys Leu Val Gln Phe Thr Glu Tyr Ser Ser  
 1395 1400 1405  
 Gln Gln Trp Phe Ile Ser Gly Asn Asn Leu Pro Thr Leu Lys Asn Lys  
 1410 1415 1420  
 Val Leu Ser Leu Ser Val Lys Gly Gln Ser Ser Gln Leu Leu Thr Asn  
 1425 1430 1435 1440  
 Asp Asn Glu Val Leu Tyr Arg Ile Tyr Ala Ala Glu Pro Arg Ile Ile  
 1445 1450 1455  
 Pro Gln Thr Ser Leu Cys Leu Leu Trp Asn Gln Ala Ala Ala Ser Trp  
 1460 1465 1470  
 Leu Ser Asp Ser Gln Phe Cys Lys Val Ile Glu Glu Thr Ala Asp Tyr  
 1475 1480 1485  
 Val Glu Cys Ala Cys Leu His Met Ser Val Tyr Ala Val Tyr Ala Arg  
 1490 1495 1500  
 Thr Asp Asn Leu Ser Ser Tyr Asn Glu Ala Phe Phe Thr Ser Gly Phe  
 1505 1510 1515 1520  
 Ile Cys Ile Ser Gly Leu Cys Leu Ala Val Leu Ser His Ile Phe Cys  
 1525 1530 1535  
 Ala Arg Tyr Ser Met Phe Ala Ala Lys Leu Leu Thr His Met Met Ala  
 1540 1545 1550  
 Ala Ser Leu Gly Thr Gln Ile Leu Phe Leu Ala Ser Ala Tyr Ala Ser  
 1555 1560 1565  
 Pro Gln Leu Ala Glu Glu Ser Cys Ser Ala Met Ala Ala Val Thr His  
 1570 1575 1580



Tyr Leu Tyr Leu Cys Gln Phe Ser Trp Met Leu Ile Gln Ser Val Asn  
 1585 1590 1595 1600  
 Phe Trp Tyr Val Leu Val Met Asn Asp Glu His Thr Glu Arg Arg Tyr  
 1605 1610 1615  
 Leu Leu Phe Phe Leu Leu Ser Trp Gly Leu Pro Ala Phe Val Val Ile  
 1620 1625 1630  
 Leu Leu Ile Val Ile Leu Lys Gly Ile Tyr His Gln Ser Met Ser Gln  
 1635 1640 1645  
 Ile Tyr Gly Leu Ile His Gly Asp Leu Cys Phe Ile Pro Asn Val Tyr  
 1650 1655 1660  
 Ala Ala Leu Phe Thr Ala Ala Leu Val Pro Leu Thr Cys Leu Val Val  
 1665 1670 1675 1680  
 Val Phe Val Val Phe Ile His Ala Tyr Gln Val Lys Pro Gln Trp Lys  
 1685 1690 1695  
 Ala Tyr Asp Asp Val Phe Arg Gly Arg Thr Asn Ala Ala Glu Ile Pro  
 1700 1705 1710  
 Leu Ile Leu Tyr Leu Phe Ala Leu Ile Ser Val Thr Trp Leu Trp Gly  
 1715 1720 1725  
 Gly Leu His Met Ala Tyr Arg His Phe Trp Met Leu Val Leu Phe Val  
 1730 1735 1740  
 Ile Phe Asn Ser Leu Gln Leu Leu Tyr Pro Leu Phe Tyr Phe Leu Leu  
 1745 1750 1755 1760  
 Leu Xaa Asp Gln Ser Ser Ala Ser Pro Gly Gly Val Asp Tyr Ile  
 1765 1770 1775  
 Leu His Gly Ser Thr Val Thr Phe Gln His Gly Gln Asn Leu Ser Phe  
 1780 1785 1790  
 Ile Asn Ile Ser Ile Ile Asp Asp Asn Glu Ser Glu Phe Glu Glu Pro  
 1795 1800 1805  
 Ile Glu Ile Leu Leu Thr Gly Ala Thr Gly Gly Ala Val Leu Gly Arg  
 1810 1815 1820  
 His Leu Val Ser Arg Ile Ile Ile Ala Lys Ser Asp Ser Pro Phe Gly  
 1825 1830 1835 1840  
 Val Ile Arg Phe Leu Asn Gln Ser Lys Ile Ser Ile Ala Asn Pro Asn  
 1845 1850 1855  
 Ser Thr Met Ile Leu Ser Leu Val Leu Glu Arg Thr Gly Gly Leu Leu  
 1860 1865 1870  
 Gly Glu Ile Gln Val Asn Trp Glu Thr Val Gly Pro Asn Ser Gln Glu  
 1875 1880 1885  
 Ala Leu Leu Pro Gln Asn Arg Asp Ile Ala Asp Pro Val Ser Gly Leu  
 1890 1895 1900  
 Phe Tyr Phe Gly Glu Gly Glu Gly Val Arg Thr Ile Ile Leu Thr  
 1905 1910 1915 1920  
 Ile Tyr Pro His Glu Glu Ile Glu Val Glu Glu Thr Phe Ile Ile Lys  
 1925 1930 1935  
 Leu His Leu Val Lys Gly Glu Ala Lys Leu Asp Ser Arg Ala Lys Asp  
 1940 1945 1950  
 Val Thr Leu Thr Ile Gln Glu Phe Gly Asp Pro Asn Gly Val Val Gln  
 1955 1960 1965  
 Phe Ala Pro Glu Thr Leu Ser Lys Lys Thr Tyr Ser Glu Pro Leu Ala  
 1970 1975 1980  
 Leu Glu Gly Pro Leu Leu Ile Thr Phe Phe Val Arg Arg Val Lys Gly  
 1985 1990 1995 2000  
 Thr Phe Gly Glu Ile Met Val Tyr Trp Glu Leu Ser Ser Glu Phe Asp  
 2005 2010 2015  
 Ile Thr Glu Asp Phe Leu Ser Thr Ser Gly Phe Phe Thr Ile Ala Asp  
 2020 2025 2030  
 Gly Glu Ser Glu Ala Ser Phe Asp Val His Leu Leu Pro Asp Glu Val  
 2035 2040 2045  
 Pro Glu Ile Glu Glu Asp Tyr Val Ile Gln Leu Val Ser Val Glu Gly  
 2050 2055 2060  
 Gly Ala Glu Leu Asp Leu Glu Lys Ser Ile Thr Trp Phe Ser Val Tyr  
 2065 2070 2075 2080  
 Ala Asn Asp Asp Pro His Gly Val Phe Ala Leu Tyr Ser Asp Arg Gln  
 2085 2090 2095

Ser Ile Leu Ile Gly Gln Asn Leu Ile Arg Ser Ile Gln Ile Asn Ile  
 2100 2105 2110  
 Thr Arg Leu Ala Gly Thr Phe Gly Asp Val Ala Val Gly Leu Arg Ile  
 2115 2120 2125  
 Ser Ser Asp His Lys Glu Gln Pro Ile Val Thr Glu Asn Ala Glu Arg  
 2130 2135 2140  
 Gln Leu Val Val Lys Asp Gly Ala Thr Tyr Lys Val Asp Val Val Pro  
 2145 2150 2155 2160  
 Ile Lys Asn Gln Val Phe Leu Ser Leu Gly Ser Asn Phe Thr Leu Gln  
 2165 2170 2175  
 Leu Val Thr Val Met Leu Val Gly Gly Arg Phe Tyr Gly Met Pro Thr  
 2180 2185 2190  
 Ile Leu Gln Glu Ala Lys Ser Ala Val Leu Pro Val Ser Glu Lys Ala  
 2195 2200 2205  
 Ala Asn Ser Gln Val Gly Phe Glu Ser Thr Ala Phe Gln Leu Met Asn  
 2210 2215 2220  
 Ile Thr Ala Gly Thr Ser His Val Met Ile Ser Arg Arg Gly Thr Tyr  
 2225 2230 2235 2240  
 Gly Ala Leu Ser Val Ala Trp Thr Thr Gly Tyr Ala Pro Gly Leu Glu  
 2245 2250 2255  
 Ile Pro Glu Phe Ile Val Val Gly Asn Met Thr Pro Thr Leu Gly Ser  
 2260 2265 2270  
 Leu Ser Phe Ser His Gly Glu Gln Arg Lys Gly Val Phe Leu Trp Thr  
 2275 2280 2285  
 Phe Pro Ser Pro Gly Trp Pro Glu Ala Phe Val Leu His Leu Ser Gly  
 2290 2295 2300  
 Val Gln Ser Ser Ala Pro Gly Gly Ala Gln Leu Arg Ser Gly Phe Ile  
 2305 2310 2315 2320  
 Val Ala Glu Ile Glu Pro Met Gly Val Phe Gln Phe Ser Thr Ser Ser  
 2325 2330 2335  
 Arg Asn Ile Ile Val Ser Glu Asp Thr Gln Met Ile Arg Leu His Val  
 2340 2345 2350  
 Gln Arg Leu Phe Gly Phe His Ser Asp Leu Ile Lys Val Ser Tyr Gln  
 2355 2360 2365  
 Thr Thr Ala Gly Ser Ala Lys Pro Leu Glu Asp Phe Glu Pro Val Gln  
 2370 2375 2380  
 Asn Gly Glu Leu Phe Phe Gln Lys Phe Gln Thr Glu Val Asp Phe Glu  
 2385 2390 2395 2400  
 Ile Thr Ile Ile Asn Asp Gln Leu Ser Glu Ile Glu Glu Phe Phe Tyr  
 2405 2410 2415  
 Ile Asn Leu Thr Ser Val Glu Ile Arg Gly Leu Gln Lys Phe Asp Val  
 2420 2425 2430  
 Asn Trp Ser Pro Arg Leu Asn Leu Asp Phe Ser Val Ala Val Ile Thr  
 2435 2440 2445  
 Ile Leu Asp Asn Asp Asp Leu Ala Gly Met Asp Ile Ser Phe Pro Glu  
 2450 2455 2460  
 Thr Thr Val Ala Val Ala Val Asp Thr Thr Leu Ile Pro Val Glu Thr  
 2465 2470 2475 2480  
 Glu Ser Thr Thr Tyr Leu Ser Thr Ser Lys Thr Thr Thr Ile Leu Gln  
 2485 2490 2495  
 Pro Thr Asn Val Val Ala Ile Val Thr Glu Ala Thr Gly Val Ser Ala  
 2500 2505 2510  
 Ile Pro Glu Lys Leu Val Thr Leu His Gly Thr Pro Ala Val Ser Glu  
 2515 2520 2525  
 Lys Pro Asp Val Ala Thr Val Thr Ala Asn Val Ser Ile His Gly Thr  
 2530 2535 2540  
 Phe Ser Leu Gly Pro Ser Ile Val Tyr Ile Glu Glu Glu Met Lys Asn  
 2545 2550 2555 2560  
 Gly Thr Phe Asn Thr Ala Glu Val Leu Ile Arg Arg Thr Gly Gly Phe  
 2565 2570 2575  
 Thr Gly Asn Val Ser Ile Thr Val Lys Thr Phe Gly Glu Arg Cys Ala  
 2580 2585 2590  
 Gln Met Glu Pro Asn Ala Leu Pro Phe Arg Gly Ile Tyr Gly Ile Ser  
 2595 2600 2605

Asn Leu Thr Trp Ala Val Glu Glu Glu Asp Phe Glu Glu Gln Thr Leu  
 2610 2615 2620  
 Thr Leu Ile Phe Leu Asp Gly Glu Arg Glu Arg Lys Val Ser Val Gln  
 2625 2630 2635 2640  
 Ile Leu Asp Asp Asp Glu Pro Glu Gly Gln Glu Phe Phe Tyr Val Phe  
 2645 2650 2655  
 Leu Thr Asn Pro Gln Gly Gly Ala Gln Ile Val Glu Gly Lys Asp Asp  
 2660 2665 2670  
 Thr Gly Phe Ala Ala Phe Ala Met Val Ile Ile Thr Gly Ser Asp Leu  
 2675 2680 2685  
 His Asn Gly Ile Ile Gly Phe Ser Glu Glu Ser Gln Ser Gly Leu Glu  
 2690 2695 2700  
 Leu Arg Glu Gly Ala Val Met Arg Arg Leu His Leu Ile Val Thr Arg  
 2705 2710 2715 2720  
 Gln Pro Asn Arg Ala Phe Glu Asp Val Lys Val Phe Trp Arg Val Thr  
 2725 2730 2735  
 Leu Asn Lys Thr Val Val Val Leu Gln Lys Asp Gly Val Asn Leu Met  
 2740 2745 2750  
 Glu Glu Leu Gln Ser Val Ser Gly Thr Thr Thr Cys Thr Met Gly Gln  
 2755 2760 2765  
 Thr Lys Cys Phe Ile Ser Ile Glu Leu Lys Pro Glu Lys Val Pro Gln  
 2770 2775 2780  
 Val Glu Val Tyr Phe Phe Val Glu Leu Tyr Glu Ala Thr Ala Gly Ala  
 2785 2790 2795 2800  
 Ala Ile Asn Asn Ser Ala Arg Phe Ala Gln Ile Lys Ile Leu Glu Ser  
 2805 2810 2815  
 Asp Glu Ser Gln Ser Leu Val Tyr Phe Ser Val Gly Ser Arg Leu Ala  
 2820 2825 2830  
 Val Ala His Lys Lys Ala Thr Leu Ile Ser Leu Gln Val Ala Arg Asp  
 2835 2840 2845  
 Ser Gly Thr Gly Leu Met Met Ser Val Asn Phe Ser Thr Gln Glu Leu  
 2850 2855 2860  
 Arg Ser Ala Glu Thr Ile Gly Arg Thr Ile Ile Ser Pro Ala Ile Ser  
 2865 2870 2875 2880  
 Gly Lys Asp Phe Val Ile Thr Glu Gly Thr Leu Val Phe Glu Pro Gly  
 2885 2890 2895  
 Gln Arg Ser Thr Val Leu Asp Val Ile Leu Thr Pro Glu Thr Gly Ser  
 2900 2905 2910  
 Leu Asn Ser Phe Pro Lys Arg Phe Gln Ile Val Leu Phe Asp Pro Lys  
 2915 2920 2925  
 Gly Gly Ala Arg Ile Asp Lys Val Tyr Gly Thr Ala Asn Ile Thr Leu  
 2930 2935 2940  
 Val Ser Asp Ala Asp Ser Gln Ala Ile Trp Gly Leu Ala Asp Gln Leu  
 2945 2950 2955 2960  
 His Gln Pro Val Asn Asp Asp Ile Leu Asn Arg Val Leu His Thr Ile  
 2965 2970 2975  
 Ser Met Lys Val Ala Thr Glu Asn Thr Asp Glu Gln Leu Ser Ala Met  
 2980 2985 2990  
 Met His Leu Ile Glu Lys Ile Thr Thr Glu Gly Lys Ile Gln Ala Phe  
 2995 3000 3005  
 Ser Val Ala Ser Arg Thr Leu Phe Tyr Glu Ile Leu Cys Ser Leu Ile  
 3010 3015 3020  
 Asn Pro Lys Arg Lys Asp Thr Arg Gly Phe Ser His Phe Ala Glu Leu  
 3025 3030 3035 3040  
 Thr Glu Asn Phe Ala Phe Ser Leu Leu Thr Asn Val Thr Cys Gly Ser  
 3045 3050 3055  
 Pro Gly Glu Lys Ser Lys Thr Ile Leu Asp Ser Cys Pro Tyr Leu Ser  
 3060 3065 3070  
 Ile Leu Ala Leu His Trp Tyr Pro Gln Gln Ile Asn Gly His Lys Phe  
 3075 3080 3085  
 Glu Gly Lys Glu Gly Asp Tyr Ile Arg Ile Pro Glu Arg Leu Leu Asp  
 3090 3095 3100  
 Val Gln Asp Ala Glu Ile Met Ala Gly Lys Ser Thr Cys Lys Leu Val  
 3105 3110 3115 3120

```
<210> 1102
<211> 945
<212> Amino acid
<213> Homo sapiens
```

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<220>  
<221> misc_feature  
<222> (1)...(945)  
<223> X = any amino acid or stop code
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<400> 1102  
 Ala Ala Gly Ala Thr Met Glu Arg Asp Gly Cys Ala Gly Gly Gly Ser  
 1 5 10 15  
 Arg Gly Gly Glu Gly Gly Arg Ala Pro Arg Glu Gly Pro Ala Gly Asn  
 20 25 30  
 Gly Arg Asp Arg Gly Arg Ser His Ala Ala Glu Ala Pro Gly Asp Pro  
 35 40 45  
 Gln Ala Ala Ala Ser Leu Leu Ala Pro Met Asp Val Gly Glu Glu Pro  
 50 55 60  
 Leu Glu Lys Ala Ala Arg Ala Arg Thr Ala Lys Asp Pro Asn Thr Tyr  
 65 70 75 80  
 Lys Val Leu Ser Leu Val Leu Ser Val Cys Val Leu Thr Thr Ile Leu  
 85 90 95  
 Gly Cys Ile Phe Gly Leu Lys Pro Ser Cys Ala Lys Glu Val Lys Ser  
 100 105 110  
 Cys Lys Gly Arg Cys Phe Glu Arg Thr Phe Gly Asn Cys Arg Cys Asp  
 115 120 125  
 Ala Ala Cys Val Glu Leu Gly Asn Cys Cys Leu Gly Leu Pro Gly Gly  
 130 135 140  
 Thr Cys Ile Glu Pro Glu His Ile Trp Thr Cys Asn Lys Phe Arg Cys  
 145 150 155 160  
 Gly Glu Lys Arg Leu Thr Arg Ser Leu Cys Ala Cys Ser Asp Asp Cys  
 165 170 175  
 Lys Asp Arg Gly Asp Cys Leu Pro Ser Asn Leu Gln Phe Leu Cys Val  
 180 185 190  
 Gln Gly Glu Lys Ser Trp Gly Arg Lys Asn Pro Cys Glu Ser His Leu  
 195 200 205  
 Met Glu Pro Gln Cys Pro Ala Gly Phe Glu Thr Pro Ser Leu Pro Leu  
 210 215 220  
 Leu Ile Phe Ser Leu Asp Gly Phe Arg Ala Glu Tyr Leu His Thr Trp  
 225 230 235 240  
 Gly Gly Leu Leu Pro Val Ile Ser Lys Leu Lys Lys Cys Gly Thr Tyr  
 245 250 255  
 Thr Lys Asn Met Arg Pro Val Tyr Pro Thr Lys Thr Phe Pro Asn His  
 260 265 270  
 Tyr Ser Ile Val Thr Gly Leu Tyr Pro Glu Ser His Gly Ile Ile Asn  
 275 280 285  
 Asn Lys Met Tyr Asp Pro Lys Met Asn Ala Ser Phe Ser Leu Lys Ser  
 290 295 300  
 Lys Glu Lys Phe Asn Pro Glu Trp Tyr Lys Gly Glu Pro Ile Trp Val  
 305 310 315 320  
 Thr Ala Lys Tyr Gln Gly Leu Lys Ser Gly Thr Phe Phe Trp Pro Gly  
 325 330 335  
 Ser Asp Val Glu Ile Asn Gly Ile Phe Pro Asp Ile Tyr Lys Met Tyr  
 340 345 350  
 Asn Gly Ser Val Pro Phe Glu Glu Arg Ile Leu Ala Val Leu Gln Trp  
 355 360 365  
 Leu Gln Leu Pro Lys Asp Glu Arg Pro His Phe Tyr Thr Leu Tyr Leu  
 370 375 380  
 Glu Glu Pro Asp Ser Ser Gly His Ser Tyr Gly Pro Val Ser Ser Glu  
 385 390 395 400  
 Val Ile Lys Ala Leu Gln Arg Val Asp Gly Met Val Gly Met Leu Met  
 405 410 415  
 Asp Gly Leu Lys Glu Leu Asn Leu His Arg Cys Leu Asn Leu Ile Leu  
 420 425 430  
 Ile Ser Asp His Gly Met Glu Gln Gly Ser Cys Lys Lys Tyr Ile Tyr  
 435 440 445  
 Leu Asn Lys Tyr Leu Gly Asp Val Lys Asn Ile Lys Val Ile Tyr Gly  
 450 455 460  
 Pro Ala Ala Arg Leu Arg Pro Ser Asp Val Pro Asp Lys Tyr Tyr Ser

465 470 475 480  
 Phe Asn Tyr Glu Gly Ile Ala Arg Asn Leu Ser Cys Arg Glu Pro Asn  
 485 490 495  
 Gln His Phe Lys Pro Tyr Leu Lys His Phe Leu Pro Lys Arg Leu His  
 500 505 510  
 Phe Ala Lys Ser Asp Arg Ile Glu Pro Leu Thr Phe Tyr Leu Asp Pro  
 515 520 525  
 Gln Trp Gln Leu Ala Leu Asn Pro Ser Glu Arg Lys Tyr Cys Gly Ser  
 530 535 540  
 Gly Phe His Gly Ser Asp Asn Val Phe Ser Asn Met Gln Ala Leu Phe  
 545 550 555 560  
 Val Gly Tyr Gly Pro Gly Phe Lys His Gly Ile Glu Ala Asp Thr Phe  
 565 570 575  
 Glu Asn Ile Glu Val Tyr Asn Leu Met Cys Asp Leu Leu Asn Leu Thr  
 580 585 590  
 Pro Ala Pro Asn Asn Gly Thr His Gly Ser Leu Asn His Leu Leu Lys  
 595 600 605  
 Asn Pro Val Tyr Thr Pro Lys His Pro Lys Glu Val His Pro Leu Val  
 610 615 620  
 Gln Cys Pro Phe Thr Arg Asn Pro Arg Asp Asn Leu Gly Cys Ser Cys  
 625 630 635 640  
 Asn Pro Ser Ile Leu Pro Ile Glu Asp Phe Gln Thr Gln Phe Asn Leu  
 645 650 655  
 Thr Val Ala Glu Glu Lys Ile Ile Lys His Glu Thr Leu Pro Tyr Gly  
 660 665 670  
 Arg Pro Arg Val Leu Gln Lys Glu Asn Thr Ile Cys Leu Leu Ser Gln  
 675 680 685  
 His Gln Phe Met Ser Gly Tyr Ser Gln Asp Ile Leu Met Pro Leu Trp  
 690 695 700  
 Thr Ser Tyr Thr Val Asp Arg Asn Asp Ser Phe Ser Thr Glu Asp Phe  
 705 710 715 720  
 Ser Asn Cys Leu Tyr Gln Asp Phe Arg Ile Pro Leu Ser Pro Val His  
 725 730 735  
 Lys Cys Ser Phe Tyr Lys Asn Asn Thr Lys Val Ser Tyr Gly Phe Leu  
 740 745 750  
 Ser Pro Pro Gln Leu Asn Lys Asn Ser Ser Gly Ile Tyr Ser Glu Ala  
 755 760 765  
 Leu Leu Thr Thr Asn Ile Val Pro Met Tyr Gln Ser Phe Gln Val Ile  
 770 775 780  
 Trp Arg Tyr Phe His Asp Thr Leu Leu Arg Lys Tyr Ala Glu Glu Arg  
 785 790 795 800  
 Asn Gly Val Asn Val Val Ser Gly Pro Val Phe Asp Phe Asp Tyr Asp  
 805 810 815  
 Gly Arg Cys Asp Ser Leu Glu Asn Leu Arg Gln Lys Arg Arg Val His  
 820 825 830  
 Pro Val Thr Gln Glu Asn Phe Trp Ile Pro Asn Ser Thr Ser Phe Tyr  
 835 840 845  
 Val Val Leu Thr Ser Cys Lys Asp Thr Ser Gln Thr Pro Leu His Cys  
 850 855 860  
 Glu Asn Leu Asp Thr Leu Gly Phe Pro Phe Cys Leu His Arg Asp Trp  
 865 870 875 880  
 Ile Asn Ser Glu Thr Cys Val His Gly Lys His Asp Ser Ser Trp Val  
 885 890 895  
 Glu Glu Phe Val Lys Cys Leu His Arg Ala Arg Ile Thr Gly Cys Xaa  
 900 905 910  
 Gly Thr Ser Leu Gly Leu Ser Phe Tyr Gln Gln Arg Lys Glu Pro Val  
 915 920 925  
 Ser Asp Ile Leu Lys Leu Lys Thr His Leu Pro Thr Phe Ser Gln Glu  
 930 935 940  
 Asp  
 945

<211> 217  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1103  
 Thr Val Pro Pro Pro Pro Gly Gly Pro Ser Pro Ala Pro Leu His Pro  
 1 5 10 15  
 Lys Arg Ser Pro Thr Ser Thr Gly Glu Ala Glu Leu Lys Glu Glu Arg  
 20 25 30  
 Leu Pro Gly Arg Lys Ala Ser Cys Ser Thr Ala Gly Ser Gly Ser Arg  
 35 40 45  
 Gly Leu Pro Pro Leu Ser Pro Met Val Ser Ser Ala His Asn Pro Asn  
 50 55 60  
 Lys Ala Glu Ile Pro Glu Arg Arg Lys Asp Ser Thr Ser Thr Pro Asn  
 65 70 75 80  
 Asn Leu Pro Pro Ser Met Met Thr Arg Arg Asn Thr Tyr Val Cys Thr  
 85 90 95  
 Glu Arg Pro Gly Ala Glu Arg Pro Ser Leu Leu Pro Asn Gly Lys Glu  
 100 105 110  
 Asn Ser Ser Gly Thr Pro Arg Val Pro Pro Ala Ser Pro Ser Ser His  
 115 120 125  
 Ser Leu Ala Pro Pro Ser Gly Glu Arg Ser Arg Leu Ala Arg Gly Ser  
 130 135 140  
 Thr Ile Arg Ser Thr Phe His Gly Gly Gln Val Arg Asp Arg Arg Ala  
 145 150 155 160  
 Gly Gly Trp Gly Trp Phe Phe Asn Lys His Ala Leu Gln Arg Ala Pro  
 165 170 175  
 Arg Asn Ala Gly Ala Pro Ser Leu Met Pro Gly His Arg Thr Val Leu  
 180 185 190  
 Ile Asn Tyr Gly Gly Gly Gln Asp Leu Lys Asn Trp Glu Thr Cys Leu  
 195 200 205  
 Ala Ala Pro Pro Asn Lys His Arg Arg  
 210 215 217

<210> 1104  
 <211> 436  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1104  
 His Thr Leu His His Ser Ser Pro Thr Ser Glu Ala Glu Glu Phe Val  
 1 5 10 15  
 Ser Arg Leu Ser Thr Gln Asn Tyr Phe Arg Ser Leu Pro Arg Gly Thr  
 20 25 30  
 Ser Asn Met Thr Tyr Gly Thr Phe Asn Phe Leu Gly Gly Arg Leu Met  
 35 40 45  
 Ile Pro Asn Thr Gly Ile Ser Leu Leu Ile Pro Pro Asp Ala Ile Pro  
 50 55 60  
 Arg Gly Lys Ile Tyr Glu Ile Tyr Leu Thr Leu His Lys Pro Glu Asp  
 65 70 75 80  
 Val Arg Leu Pro Leu Ala Gly Cys Gln Thr Leu Leu Ser Pro Ile Val  
 85 90 95  
 Ser Cys Gly Pro Pro Gly Val Leu Leu Thr Arg Pro Val Ile Leu Gly  
 100 105 110  
 Met Asp His Cys Gly Glu Pro Ser Pro Asp Ser Trp Ser Leu Arg Leu

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      115      120      125
Lys Lys Gln Ser Cys Glu Gly Ser Trp Glu Asp Val Leu His Leu Gly
  130      135      140
Glu Glu Ala Pro Ser His Leu Tyr Tyr Cys Gln Leu Glu Ala Ser Ala
  145      150      155      160
Cys Tyr Val Phe Thr Glu Gln Leu Ser Arg Tyr Ala Leu Val Gly Glu
      165      170      175
Ala Leu Ser Val Ala Ala Ala Lys Arg Leu Lys Leu Leu Leu Phe Ala
      180      185      190
Pro Val Ala Cys Thr Ser Leu Glu Tyr Asn Ile Leu Val Tyr Cys Leu
      195      200      205
His Asp Thr His Asp Ala Leu Asn Val Val Val Gln Leu Glu Lys Gln
      210      215      220
Leu Gln Gly Gln Leu Ile Gln Glu Pro Leu Val Leu His Phe Lys Asp
  225      230      235      240
Ser Tyr His Asn Leu Arg Leu Ser Ile His Asp Val Pro Ser Ser Leu
      245      250      255
Trp Lys Ser Lys Leu Leu Val Ser Tyr Gln Glu Ile Pro Phe Tyr His
      260      265      270
Ile Trp Asn Gly Thr Gln Arg Tyr Leu His Cys Thr Phe Thr Leu Glu
      275      280      285
Arg Val Ser Pro Ser Thr Ser Asp Leu Ala Cys Lys Leu Trp Val Trp
  290      295      300
Gln Val Glu Gly Asp Gly Gln Ser Phe Ser Ile Asn Phe Asn Ile Thr
  305      310      315      320
Lys Asp Thr Arg Phe Ala Glu Leu Leu Ala Leu Glu Ser Glu Ala Gly
      325      330      335
Val Pro Ala Leu Val Gly Pro Ser Ala Phe Lys Ile Pro Phe Leu Ile
      340      345      350
Arg Gln Lys Ile Ile Ser Ser Leu Asp Pro Pro Cys Arg Arg Gly Ala
      355      360      365
Asp Trp Arg Thr Leu Ala Gln Lys Leu His Leu Asp Ser His Leu Ser
  370      375      380
Phe Phe Ala Ser Lys Pro Ser Pro Thr Ala Met Ile Leu Asn Leu Trp
  385      390      395      400
Glu Ala Arg His Phe Pro Asn Gly Asn Leu Ser Gln Leu Ala Ala Ala
      405      410      415
Val Ala Gly Thr Gly Pro Ala Gly Arg Trp Leu Leu Ser Gln Cys Ser
      420      425      430
Glu Ala Glu Cys
      435 436

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<210> 1105
<211> 113
<212>Amino acid
<213> Homo sapiens

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      <400> 1105
Gly Ser Ala Ala Gly Gln Val Gln Gln Gln Gln Gln Arg Arg His Gln
  1      5      10      15
Gln Gly Lys Val Thr Val Lys Tyr Asp Arg Lys Glu Leu Arg Lys Arg
      20      25      30
Leu Val Leu Glu Glu Trp Ile Val Glu Gln Leu Gly Gln Leu Tyr Gly
      35      40      45
Cys Glu Glu Glu Met Pro Glu Val Glu Ile Asp Ile Asp Asp Leu
      50      55      60
Phe Asp Ala Tyr Ser Asp Glu Gln Arg Ala Ser Lys Leu Gln Glu Ala
      65      70      75      80
Leu Val Asp Cys Tyr Lys Pro Thr Glu Glu Phe Ile Lys Glu Leu Leu

```



85 90 95  
 Ser Arg Ile Arg Gly Met Arg Lys Leu Ser Pro Pro Gln Lys Lys Ser  
 100 105 110  
 Val  
 113

<210> 1106  
 <211> 464  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1106  
 Ile Met Leu Asp Gly Arg Val Arg Trp Leu Thr Pro Val Ile Ser Ala  
 1 5 10 15  
 Leu Trp Glu Ala Glu Met Glu Asp Val Ile Ala Arg Met Gln Asp Glu  
 20 25 30  
 Lys Asn Gly Ile Pro Ile Arg Thr Val Lys Ser Phe Leu Ser Lys Ile  
 35 40 45  
 Pro Ser Val Phe Ser Gly Ser Asp Ile Val Gln Trp Leu Ile Lys Asn  
 50 55 60  
 Leu Thr Ile Glu Asp Pro Val Glu Ala Leu His Leu Gly Thr Leu Met  
 65 70 75 80  
 Ala Ala His Gly Tyr Phe Phe Pro Ile Ser Asp His Val Leu Thr Leu  
 85 90 95  
 Lys Asp Asp Gly Thr Phe Tyr Arg Phe Gln Thr Pro Tyr Phe Trp Pro  
 100 105 110  
 Ser Asn Cys Trp Glu Pro Glu Asn Thr Asp Tyr Ala Val Tyr Leu Cys  
 115 120 125  
 Lys Arg Thr Met Gln Asn Lys Ala Arg Leu Glu Leu Ala Asp Tyr Glu  
 130 135 140  
 Ala Glu Ser Leu Ala Arg Leu Gln Arg Ala Phe Ala Arg Lys Trp Glu  
 145 150 155 160  
 Phe Ile Phe Met Gln Ala Glu Ala Gln Ala Lys Val Asp Lys Lys Arg  
 165 170 175  
 Asp Lys Ile Glu Arg Lys Ile Leu Asp Ser Gln Glu Arg Ala Phe Trp  
 180 185 190  
 Asp Val His Arg Pro Val Pro Gly Cys Val Asn Thr Thr Glu Val Asp  
 195 200 205  
 Ile Lys Lys Ser Ser Arg Met Arg Asn Pro His Lys Thr Arg Lys Ser  
 210 215 220  
 Val Tyr Gly Leu Gln Asn Asp Ile Arg Ser His Ser Pro Thr His Thr  
 225 230 235 240  
 Pro Thr Pro Glu Thr Lys Pro Pro Thr Glu Asp Glu Leu Gln Gln Gln  
 245 250 255  
 Ile Lys Tyr Trp Gln Ile Gln Leu Asp Arg His Arg Leu Lys Met Ser  
 260 265 270  
 Lys Val Ala Asp Ser Leu Leu Ser Tyr Thr Glu Gln Tyr Leu Glu Tyr  
 275 280 285  
 Asp Pro Phe Leu Leu Pro Pro Asp Pro Ser Asn Pro Trp Leu Ser Asp  
 290 295 300  
 Asp Thr Thr Phe Trp Glu Leu Glu Ala Ser Lys Glu Pro Ser Gln Gln  
 305 310 315 320  
 Arg Val Lys Arg Trp Gly Phe Gly Met Asp Glu Ala Leu Lys Asp Pro  
 325 330 335  
 Val Gly Arg Glu Gln Phe Leu Lys Phe Leu Glu Ser Glu Phe Ser Ser  
 340 345 350  
 Glu Asn Leu Arg Phe Trp Leu Ala Val Glu Asp Leu Lys Lys Arg Pro  
 355 360 365  
 Ile Lys Glu Val Pro Ser Arg Val Gln Glu Ile Trp Gln Glu Phe Leu

```

      370              375              380
Ala Pro Gly Ala Pro Ser Ala Ile Asn Leu Asp Ser Lys Ser Tyr Asp
385              390              395              400
Lys Thr Thr Gln Asn Val Lys Glu Pro Gly Arg Tyr Thr Phe Glu Asp
      405              410              415
Ala Gln Glu His Ile Tyr Lys Leu Met Lys Ser Asp Ser Tyr Pro Arg
      420              425              430
Phe Ile Arg Ser Ser Ala Tyr Gln Glu Leu Leu Gln Ala Lys Lys Lys
      435              440              445
Gly Lys Ser Leu Thr Ser Lys Arg Leu Thr Ser Leu Ala Gln Ser Tyr
      450              455              460              464

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<210> 1107  
 <211> 153  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 1107
Gly Thr Arg Asp Tyr Pro Arg Ile Val Asn His Leu Asp His Thr Tyr
  1              5              10              15
Val Thr Ala Pro Gln Ala Phe Met Met Phe Gln Tyr Phe Val Lys Val
      20              25              30
Val Pro Thr Val Tyr Met Lys Val Asp Gly Glu Val Leu Thr Thr Asn
      35              40              45
Gln Ile Tyr Val Thr Arg His Glu Lys Ala Ala Tyr Val Leu Met Gly
  50              55              60
Asp Gln Gly Leu Pro Gly Val Phe Ile Leu Tyr Glu Leu Ser Pro Met
  65              70              75              80
Met Val Asn Leu Thr Glu Ile His Thr Phe Phe Ser Leu Phe Leu Thr
      85              90              95
Ile Val Gly Ala Thr Ile Gly Gly Met Phe Phe Glu His Phe Val Ile
      100              105              110
Asn Tyr Leu Thr His Lys Trp Gly Leu Gly Phe Tyr Phe Lys Asn Glu
      115              120              125
Asn Ser Leu Gln Gly Gly His Arg Thr Leu Tyr Gly Val Asn Phe Phe
  130              135              140
Met Tyr Trp Ser Leu Arg Gly Gly Ser
145              150              153

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<210> 1108  
 <211> 506  
 <212>Amino acid  
 <213> Homo sapiens

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      <400> 1108
Ser Val Trp Trp Asn Ser Gln Arg Gln Phe Val Val Arg Ala Trp Gly
  1              5              10              15
Cys Ala Gly Pro Cys Gly Arg Ala Val Phe Leu Ala Phe Gly Leu Gly
      20              25              30
Leu Gly Leu Ile Glu Glu Lys Gln Ala Glu Ser Arg Arg Ala Val Ser
      35              40              45
Ala Cys Gln Glu Ile Gln Ala Ile Phe Thr Gln Lys Ser Lys Pro Gly

```

50	55	60			
Pro Asp Pro Leu Asp Thr Arg Arg Leu Gln Gly Phe Arg Leu Glu Glu					
65	70	75	80		
Tyr Leu Ile Gly Gln Ser Ile Gly Lys Gly Cys Ser Ala Ala Val Tyr					
	85	90	95		
Glu Ala Thr Met Pro Thr Leu Pro Gln Asn Leu Glu Val Thr Lys Ser					
	100	105	110		
Thr Gly Leu Leu Pro Gly Arg Gly Pro Gly Thr Ser Ala Pro Gly Glu					
	115	120	125		
Gly Gln Glu Arg Ala Pro Gly Ala Pro Ala Phe Pro Leu Ala Ile Lys					
	130	135	140		
Met Met Trp Asn Ile Ser Ala Gly Ser Ser Ser Glu Ala Ile Leu Asn					
145	150	155	160		
Thr Met Ser Gln Glu Leu Val Pro Ala Ser Arg Val Ala Leu Ala Gly					
	165	170	175		
Glu Tyr Gly Ala Val Thr Tyr Arg Lys Ser Lys Arg Gly Pro Lys Gln					
	180	185	190		
Leu Ala Pro His Pro Asn Ile Ile Arg Val Leu Arg Ala Phe Thr Ser					
	195	200	205		
Ser Val Pro Leu Leu Pro Gly Ala Leu Val Asp Tyr Pro Asp Val Leu					
	210	215	220		
Pro Ser Arg Leu His Pro Glu Gly Leu Gly His Gly Arg Thr Leu Phe					
225	230	235	240		
Leu Val Met Lys Asn Tyr Pro Cys Thr Leu Arg Gln Tyr Leu Cys Val					
	245	250	255		
Asn Thr Pro Ser Pro Arg Leu Ala Ala Met Met Leu Leu Gln Leu Leu					
	260	265	270		
Glu Gly Val Asp His Leu Val Gln Gln Gly Ile Ala His Arg Asp Leu					
	275	280	285		
Lys Ser Asp Asn Ile Leu Val Glu Leu Asp Pro Asp Gly Cys Pro Trp					
	290	295	300		
Leu Val Ile Ala Asp Phe Gly Cys Cys Leu Ala Asp Glu Ser Ile Gly					
305	310	315	320		
Leu Gln Leu Pro Phe Ser Ser Trp Tyr Val Asp Arg Gly Gly Asn Gly					
	325	330	335		
Cys Leu Met Ala Pro Glu Val Ser Thr Ala Arg Pro Gly Pro Arg Ala					
	340	345	350		
Val Ile Asp Tyr Ser Lys Ala Asp Ala Trp Ala Val Gly Ala Ile Ala					
	355	360	365		
Tyr Glu Ile Phe Gly Leu Val Asn Pro Phe Tyr Gly Gln Gly Lys Ala					
	370	375	380		
His Leu Glu Ser Arg Ser Tyr Gln Glu Ala Gln Leu Pro Ala Leu Pro					
385	390	395	400		
Glu Ser Val Pro Pro Asp Val Arg Gln Leu Val Arg Ala Leu Leu Gln					
	405	410	415		
Arg Glu Ala Ser Lys Arg Pro Ser Ala Arg Val Ala Ala Asn Val Leu					
	420	425	430		
His Leu Ser Leu Trp Gly Glu His Ile Leu Ala Leu Lys Asn Leu Lys					
	435	440	445		
Leu Asp Lys Met Val Gly Trp Leu Leu Gln Gln Ser Ala Ala Thr Leu					
	450	455	460		
Leu Ala Asn Arg Leu Thr Glu Lys Cys Cys Val Glu Thr Lys Met Lys					
465	470	475	480		
Met Leu Phe Leu Ala Asn Leu Glu Cys Glu Thr Leu Cys Gln Ala Ala					
	485	490	495		
Leu Leu Leu Cys Ser Trp Arg Ala Ala Leu					
	500	505	506		

&lt;210&gt; 1109

&lt;211&gt; 382

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

```

<400> 1109
Arg Pro Leu Leu Arg Leu Ala Glu Leu Pro Asp His Cys Tyr Arg Met
 1          5          10          15
Asn Ser Ser Pro Ala Gly Thr Pro Ser Pro Gln Pro Ser Arg Ala Asn
 20          25          30
Gly Asn Ile Asn Leu Gly Pro Ser Ala Asn Pro Asn Ala Gln Pro Thr
 35          40          45
Asp Phe Asp Phe Leu Lys Val Ile Gly Lys Gly Asn Tyr Gly Lys Val
 50          55          60
Leu Leu Ala Lys Arg Lys Ser Asp Gly Ala Phe Tyr Ala Val Lys Val
 65          70          75          80
Leu Gln Lys Lys Ser Ile Leu Lys Lys Lys Glu Gln Ser His Ile Met
 85          90          95
Ala Glu Arg Ser Val Leu Leu Lys Asn Val Arg His Pro Phe Leu Val
100          105          110
Gly Leu Arg Tyr Ser Phe Gln Thr Pro Glu Lys Leu Tyr Phe Val Leu
115          120          125
Asp Tyr Val Asn Gly Gly Glu Leu Phe Phe His Leu Gln Arg Glu Arg
130          135          140
Arg Phe Leu Glu Pro Arg Ala Arg Phe Tyr Ala Ala Glu Val Ala Ser
145          150          155          160
Ala Ile Gly Tyr Leu His Ser Leu Asn Ile Ile Tyr Arg Asp Leu Lys
165          170          175
Pro Glu Asn Ile Leu Leu Asp Cys Gln Gly His Val Val Leu Thr Asp
180          185          190
Phe Gly Leu Cys Lys Glu Gly Val Glu Pro Glu Asp Thr Thr Ser Thr
195          200          205
Phe Cys Gly Thr Pro Glu Tyr Leu Ala Pro Glu Val Leu Arg Lys Glu
210          215          220
Pro Tyr Asp Arg Ala Val Asp Trp Trp Cys Leu Gly Ala Val Leu Tyr
225          230          235          240
Glu Met Leu His Gly Leu Pro Pro Phe Tyr Ser Gln Asp Val Ser Gln
245          250          255
Met Tyr Glu Asn Ile Leu His Gln Pro Leu Gln Ile Pro Gly Gly Arg
260          265          270
Thr Val Ala Ala Cys Asp Leu Leu Gln Ser Leu Leu His Lys Asp Gln
275          280          285
Arg Gln Arg Leu Gly Ser Lys Ala Asp Phe Leu Glu Ile Lys Asn His
290          295          300
Val Phe Phe Ser Pro Ile Asn Trp Asp Asp Leu Tyr His Lys Arg Leu
305          310          315          320
Thr Pro Pro Phe Asn Pro Asn Val Thr Gly Pro Ala Asp Leu Lys His
325          330          335
Phe Asp Pro Glu Phe Thr Gln Glu Ala Val Ser Lys Ser Ile Gly Cys
340          345          350
Thr Pro Asp Thr Val Ala Ser Ser Ser Gly Ala Ser Ser Ala Phe Leu
355          360          365
Gly Phe Ser Tyr Ala Pro Glu Asp Asp Asp Ile Leu Asp Cys
370          375          380          382

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&lt;210&gt; 1110

&lt;211&gt; 535

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

<400> 1110  
 Arg Pro Gln Thr Leu Lys Gly His Gln Glu Lys Ile Arg Gln Arg Gln  
 1 5 10 15  
 Ser Ile Leu Pro Pro Gln Gly Pro Ala Pro Ile Pro Phe Gln His  
 20 25 30  
 Arg Gly Gly Asp Ser Pro Glu Ala Lys Asn Arg Val Gly Pro Gln Val  
 35 40 45  
 Pro Leu Ser Glu Pro Gly Phe Arg Arg Arg Glu Ser Gln Glu Glu Pro  
 50 55 60  
 Arg Ala Val Leu Ala Gln Lys Ile Glu Lys Glu Thr Gln Ile Leu Asn  
 65 70 75 80  
 Cys Ala Leu Asp Asp Ile Glu Trp Phe Val Ala Arg Leu Gln Lys Ala  
 85 90 95  
 Ala Glu Ala Phe Lys Gln Leu Asn Gln Arg Lys Lys Gly Lys Lys Lys  
 100 105 110  
 Gly Lys Lys Ala Pro Ala Glu Gly Val Leu Thr Leu Arg Ala Arg Pro  
 115 120 125  
 Pro Ser Glu Gly Glu Phe Ile Asp Cys Phe Gln Lys Ile Lys Leu Ala  
 130 135 140  
 Ile Asn Leu Leu Ala Lys Leu Gln Lys His Ile Gln Asn Pro Ser Ala  
 145 150 155 160  
 Ala Glu Leu Val His Phe Leu Phe Gly Pro Leu Asp Leu Ile Val Asn  
 165 170 175  
 Thr Cys Ser Gly Pro Asp Ile Ala Arg Ser Val Ser Cys Pro Leu Leu  
 180 185 190  
 Ser Arg Asp Ala Val Asp Phe Leu Arg Gly His Leu Val Pro Lys Glu  
 195 200 205  
 Met Ser Leu Trp Glu Ser Leu Gly Glu Ser Trp Met Arg Pro Arg Ser  
 210 215 220  
 Glu Trp Pro Arg Glu Pro Gln Val Pro Leu Tyr Val Pro Lys Phe His  
 225 230 235 240  
 Ser Gly Trp Glu Pro Pro Val Asp Val Leu Gln Glu Ala Pro Trp Glu  
 245 250 255  
 Val Glu Gly Leu Ala Ser Ala Pro Ile Glu Glu Val Ser Pro Val Ser  
 260 265 270  
 Arg Gln Ser Ile Arg Asn Ser Gln Lys His Ser Pro Thr Ser Glu Pro  
 275 280 285  
 Thr Pro Pro Gly Asp Ala Leu Pro Pro Val Ser Ser Pro His Thr His  
 290 295 300  
 Arg Gly Tyr Gln Pro Thr Pro Ala Met Ala Lys Tyr Val Lys Ile Leu  
 305 310 315 320  
 Tyr Asp Phe Thr Ala Arg Asn Ala Asn Glu Leu Ser Val Leu Lys Asp  
 325 330 335  
 Glu Val Leu Glu Val Leu Glu Asp Gly Arg Gln Trp Trp Lys Leu Arg  
 340 345 350  
 Ser Arg Ser Gly Gln Ala Gly Tyr Val Pro Cys Asn Ile Leu Gly Glu  
 355 360 365  
 Ala Arg Pro Glu Asp Ala Gly Ala Pro Phe Glu Gln Ala Gly Gln Lys  
 370 375 380  
 Tyr Trp Gly Pro Ala Ser Pro Thr His Lys Leu Pro Pro Ser Phe Pro  
 385 390 395 400  
 Gly Asn Lys Asp Glu Leu Met Gln His Met Asp Glu Val Asn Asp Glu  
 405 410 415  
 Leu Ile Arg Lys Ile Ser Asn Ile Arg Ala Gln Pro Gln Arg His Phe  
 420 425 430  
 Arg Val Glu Arg Ser Gln Pro Val Ser Gln Pro Leu Thr Tyr Glu Ser  
 435 440 445  
 Gly Pro Asp Glu Val Arg Ala Trp Leu Glu Ala Lys Ala Phe Ser Pro  
 450 455 460  
 Arg Ile Val Glu Asn Leu Gly Ile Leu Thr Gly Pro Gln Leu Phe Ser  
 465 470 475 480  
 Leu Asn Lys Glu Glu Leu Lys Lys Val Cys Gly Glu Glu Gly Val Arg  
 485 490 495  
 Val Tyr Ser Gln Leu Thr Met Gln Lys Ala Phe Leu Glu Lys Gln Gln

500 505 510  
 Ser Gly Ser Glu Leu Glu Glu Leu Met Asn Lys Phe His Ser Met Asn  
 515 520 525  
 Gln Arg Arg Gly Glu Asp Ser  
 530 535

<210> 1111  
 <211> 346  
 <212> Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(346)  
 <223> X = any amino acid or stop code

<400> 1111  
 Ala Trp His Glu Gly Leu Val Ser Ser Pro Ala Ile Gly Ala Tyr Leu  
 1 5 10 15  
 Ser Ala Ser Tyr Gly Asp Ser Leu Val Val Leu Val Ala Thr Val Val  
 20 25 30  
 Ala Leu Leu Asp Ile Cys Phe Ile Leu Val Ala Val Pro Glu Ser Leu  
 35 40 45  
 Pro Glu Lys Met Arg Pro Val Ser Trp Gly Ala Gln Ile Ser Trp Lys  
 50 55 60  
 Gln Ala Asp Pro Phe Ala Ser Leu Lys Lys Val Gly Lys Asp Ser Thr  
 65 70 75 80  
 Val Leu Leu Ile Cys Ile Thr Val Cys Leu Ser Tyr Leu Pro Glu Ala  
 85 90 95  
 Gly Gln Tyr Ser Ser Phe Phe Leu Tyr Leu Arg Gln Val Ile Gly Phe  
 100 105 110  
 Gly Ser Val Lys Ile Ala Ala Phe Ile Ala Met Val Gly Ile Leu Ser  
 115 120 125  
 Ile Val Ala Gln Thr Ala Phe Leu Ser Ile Leu Met Arg Ser Leu Gly  
 130 135 140  
 Asn Lys Asn Thr Val Leu Leu Gly Leu Gly Phe Gln Met Leu Gln Leu  
 145 150 155 160  
 Ala Trp Tyr Gly Phe Gly Ser Gln Ala Trp Met Met Trp Ala Ala Gly  
 165 170 175  
 Thr Val Ala Ala Met Ser Ser Ile Thr Phe Pro Ala Ile Ser Ala Leu  
 180 185 190  
 Val Ser Arg Asn Ala Glu Ser Asp Gln Gln Gly Val Ala Gln Gly Ile  
 195 200 205  
 Ile Thr Gly Ile Arg Gly Leu Cys Asn Gly Leu Gly Pro Ala Leu Tyr  
 210 215 220  
 Gly Phe Ile Phe Tyr Met Phe His Val Glu Leu Thr Glu Leu Gly Pro  
 225 230 235 240  
 Lys Leu Asn Ser Asn Asn Val Pro Leu Gln Gly Ala Val Ile Pro Gly  
 245 250 255  
 Pro Pro Phe Leu Phe Gly Ala Cys Ile Val Leu Met Ser Phe Leu Ala  
 260 265 270  
 Ala Leu Phe Ile Pro Glu Tyr Ser Lys Ala Ser Gly Val Gln Lys His  
 275 280 285  
 Ser Asn Ser Ser Ser Gly Ser Leu Thr Asn Thr Pro Glu Arg Gly Ser  
 290 295 300  
 Asp Glu Asp Ile Glu Pro Leu Leu Gln Asp Ser Ser Ile Trp Glu Leu  
 305 310 315 320  
 Ser Ser Phe Glu Glu Pro Gly Asn Gln Cys Thr Glu Leu Xaa Thr Arg  
 325 330 335

Gln Lys Val Gly Phe Cys Ile Arg His Leu  
 340 345 346

<210> 1112  
 <211> 647  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1112  
 Met Ala Ala Gly Leu Ala Thr Trp Leu Pro Phe Ala Arg Ala Ala Ala  
 1 5 10 15  
 Val Gly Trp Leu Pro Leu Ala Gln Gln Pro Leu Pro Pro Ala Pro Gly  
 20 25 30  
 Val Lys Ala Ser Arg Gly Asp Glu Val Leu Val Val Asn Val Ser Gly  
 35 40 45  
 Arg Arg Phe Glu Thr Trp Lys Asn Thr Leu Asp Arg Tyr Pro Asp Thr  
 50 55 60  
 Leu Leu Gly Ser Ser Glu Lys Glu Phe Phe Tyr Asp Ala Asp Ser Gly  
 65 70 75 80  
 Glu Tyr Phe Phe Asp Arg Asp Pro Asp Met Phe Arg His Val Leu Asn  
 85 90 95  
 Phe Tyr Arg Thr Gly Arg Leu His Cys Pro Arg Gln Glu Cys Ile Gln  
 100 105 110  
 Ala Phe Asp Glu Glu Leu Ala Phe Tyr Gly Leu Val Pro Glu Leu Val  
 115 120 125  
 Gly Asp Cys Cys Leu Glu Glu Tyr Arg Asp Arg Lys Lys Glu Asn Ala  
 130 135 140  
 Glu Arg Leu Ala Glu Asp Glu Glu Ala Glu Gln Ala Gly Asp Gly Pro  
 145 150 155 160  
 Ala Leu Pro Ala Gly Ser Ser Leu Arg Gln Arg Leu Trp Arg Ala Phe  
 165 170 175  
 Glu Asn Pro His Thr Ser Thr Ala Ala Leu Val Phe Tyr Tyr Val Thr  
 180 185 190  
 Gly Phe Phe Ile Ala Val Ser Val Ile Ala Asn Val Val Glu Thr Ile  
 195 200 205  
 Pro Cys Arg Gly Ser Ala Arg Arg Ser Ser Arg Glu Gln Pro Cys Gly  
 210 215 220  
 Glu Arg Phe Pro Gln Ala Phe Phe Cys Met Asp Thr Ala Cys Val Leu  
 225 230 235 240  
 Ile Phe Thr Gly Glu Tyr Leu Leu Arg Leu Phe Ala Ala Pro Ser Arg  
 245 250 255  
 Cys Arg Phe Leu Arg Ser Val Met Ser Leu Ile Asp Val Val Ala Ile  
 260 265 270  
 Leu Pro Tyr Tyr Ile Gly Leu Leu Val Pro Lys Asn Asp Asp Val Ser  
 275 280 285  
 Gly Ala Phe Val Thr Leu Arg Val Phe Arg Val Phe Arg Ile Phe Lys  
 290 295 300  
 Phe Ser Arg His Ser Gln Gly Leu Arg Ile Leu Gly Tyr Thr Leu Lys  
 305 310 315 320  
 Ser Cys Ala Ser Glu Leu Gly Phe Leu Leu Phe Ser Leu Thr Met Ala  
 325 330 335  
 Ile Ile Ile Phe Ala Thr Val Met Phe Tyr Ala Glu Lys Gly Thr Asn  
 340 345 350  
 Lys Thr Asn Phe Thr Ser Ile Pro Ala Ala Phe Trp Tyr Thr Ile Val  
 355 360 365  
 Thr Met Thr Thr Leu Gly Tyr Gly Asp Met Val Pro Ser Thr Ile Ala  
 370 375 380  
 Gly Lys Ile Phe Gly Ser Ile Cys Ser Leu Ser Gly Val Leu Val Ile  
 385 390 395 400

```

Ala Leu Pro Val Pro Val Ile Val Ser Asn Phe Ser Arg Ile Tyr His
                        405                        410                        415
Gln Asn Gln Arg Ala Asp Lys Arg Arg Ala Gln Gln Lys Val Arg Leu
                        420                        425                        430
Ala Arg Ile Arg Leu Ala Lys Ser Gly Thr Thr Asn Ala Phe Leu Gln
                        435                        440                        445
Tyr Lys Gln Asn Gly Gly Leu Glu Asp Ser Gly Ser Gly Glu Glu Gln
                        450                        455                        460
Ala Val Cys Val Arg Asn Arg Ser Ala Phe Glu Gln Gln His His His
465                        470                        475                        480
Leu Leu His Cys Leu Glu Lys Thr Thr Cys His Glu Phe Thr Asp Glu
                        485                        490                        495
Leu Thr Phe Ser Glu Ala Leu Gly Ala Val Ser Pro Gly Gly Arg Thr
                        500                        505                        510
Ser Arg Ser Thr Ser Val Ser Ser Gln Pro Val Gly Pro Gly Ser Leu
                        515                        520                        525
Leu Ser Ser Cys Cys Pro Arg Arg Ala Lys Arg Arg Ala Ile Arg Leu
                        530                        535                        540
Ala Asn Ser Thr Ala Ser Val Ser Arg Gly Ser Met Gln Glu Leu Asp
545                        550                        555                        560
Met Leu Ala Gly Leu Arg Arg Ser His Ala Pro Gln Ser Arg Ser Ser
                        565                        570                        575
Leu Asn Ala Lys Pro His Asp Ser Leu Asp Leu Asn Cys Asp Ser Gly
                        580                        585                        590
Asp Phe Val Ala Ala Ile Ile Ser Ile Pro Thr Pro Pro Ala Asn Thr
                        595                        600                        605
Pro Asp Glu Ser Gln Pro Ser Ser Pro Gly Gly Gly Gly Arg Ala Gly
610                        615                        620
Ser Thr Leu Arg Asn Ser Ser Leu Gly Thr Pro Cys Leu Phe Pro Glu
625                        630                        635                        640
Thr Val Lys Ile Ser Ser Leu
                        645                        647

```

&lt;210&gt; 1113

&lt;211&gt; 220

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(220)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1113

```

Gly Trp Gly Lys Pro Phe Lys Asp Trp Thr Thr Gly Gly Gln Asp Thr
1                        5                        10                        15
Gly Gly Glu Pro Ala Leu Leu Val Gly Ala Gly Glu Gly Arg Ala Pro
                        20                        25                        30
Arg Leu Asn Cys Pro Ser Gly Gln Ile Arg Ser Pro Gly Pro Gly Asp
35                        40                        45
Leu Ser Ile Tyr Asp Asn Trp Ile Arg Tyr Phe Asn Arg Ser Ser Pro
50                        55                        60
Val Tyr Gly Leu Val Pro Arg Ser Lys Thr Ser Ala Arg Ile Tyr Pro
65                        70                        75                        80
Thr Tyr His Thr Ala Phe Asp Thr Phe Asp Tyr Val Asp Lys Phe Leu
                        85                        90                        95
Asp Pro Gly Glu Gly Asp Lys Gly His Pro Glu Thr Arg Thr Gly
100                        105                        110
Glu Ala Glu Asp Xaa Ala Leu Ala Leu Ser Pro Cys Arg Arg Phe Ser

```



	115					120				125					
Ser	His	Gln	Ala	Val	Ala	Arg	Thr	Ala	Gly	Ser	Val	Ile	Leu	Arg	Leu
	130					135					140				
Ser	Asp	Ser	Phe	Phe	Leu	Pro	Leu	Lys	Val	Ser	Asp	Tyr	Ser	Glu	Thr
145					150					155				160	
Leu	Arg	Ser	Phe	Leu	Gln	Ala	Ala	Gln	Gln	Asp	Leu	Gly	Ala	Leu	Leu
			165						170					175	
Glu	Gln	His	Ser	Ile	Ser	Leu	Gly	Pro	Leu	Val	Thr	Ala	Val	Glu	Lys
		180					185						190		
Phe	Glu	Ala	Glu	Ala	Ala	Ala	Leu	Gly	Gln	Arg	Ile	Ser	Thr	Leu	Gln
	195					200					205				
Lys	Gly	Ser	Pro	Asp	Pro	Leu	Gln	Val	Arg	Met	Leu				
	210					215					220				

&lt;210&gt; 1114

&lt;211&gt; 382

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

<400> 1114

Gly	Ile	Arg	Gly	Gly	Ser	Leu	Ala	Ser	Gly	Gly	Pro	Gly	Pro	Gly	
1				5				10					15		
His	Ala	Ser	Leu	Ser	Gln	Arg	Leu	Arg	Leu	Tyr	Leu	Ala	Asp	Ser	Trp
			20				25					30			
Asn	Gln	Cys	Asp	Leu	Val	Ala	Leu	Thr	Cys	Phe	Leu	Leu	Gly	Val	Gly
		35				40					45				
Cys	Arg	Leu	Thr	Pro	Gly	Leu	Tyr	His	Leu	Gly	Arg	Thr	Val	Leu	Cys
	50				55				60						
Ile	Asp	Phe	Met	Val	Phe	Thr	Val	Arg	Leu	Leu	His	Ile	Phe	Thr	Val
65					70				75						80
Asn	Lys	Gln	Leu	Gly	Pro	Lys	Ile	Val	Ile	Val	Ser	Lys	Met	Met	Lys
			85				90						95		
Asp	Val	Phe	Phe	Phe	Leu	Phe	Phe	Leu	Gly	Val	Trp	Leu	Val	Ala	Tyr
		100				105						110			
Gly	Val	Ala	Thr	Glu	Gly	Leu	Leu	Arg	Pro	Arg	Asp	Ser	Asp	Phe	Pro
	115					120					125				
Ser	Ile	Leu	Arg	Arg	Val	Phe	Tyr	Arg	Pro	Tyr	Leu	Gln	Ile	Phe	Gly
	130				135						140				
Gln	Ile	Pro	Gln	Glu	Asp	Met	Asp	Val	Ala	Leu	Met	Glu	His	Ser	Asn
145				150						155					160
Cys	Ser	Ser	Glu	Pro	Gly	Phe	Trp	Ala	His	Pro	Pro	Gly	Ala	Gln	Ala
			165				170						175		
Gly	Thr	Cys	Val	Ser	Gln	Tyr	Ala	Asn	Trp	Leu	Val	Val	Leu	Leu	Leu
		180					185					190			
Val	Ile	Phe	Leu	Leu	Val	Ala	Asn	Ile	Leu	Leu	Val	Asn	Leu	Leu	Ile
	195					200					205				
Ala	Met	Phe	Ser	Tyr	Thr	Phe	Gly	Lys	Val	Gln	Gly	Asn	Ser	Asp	Leu
	210					215					220				
Tyr	Trp	Lys	Ala	Gln	Arg	Tyr	Arg	Leu	Ile	Arg	Glu	Phe	His	Ser	Arg
225				230						235					240
Pro	Ala	Leu	Ala	Pro	Pro	Phe	Ile	Val	Ile	Ser	His	Leu	Arg	Leu	Leu
			245				250						255		
Leu	Arg	Gln	Leu	Cys	Arg	Arg	Pro	Arg	Ser	Pro	Gln	Pro	Ser	Ser	Pro
		260					265					270			
Ala	Leu	Glu	His	Phe	Arg	Val	Tyr	Leu	Ser	Lys	Glu	Ala	Glu	Arg	Lys
	275					280					285				
Leu	Leu	Thr	Trp	Glu	Ser	Val	His	Lys	Glu	Asn	Phe	Leu	Leu	Ala	Arg
	290					295				300					
Ala	Arg	Asp	Lys	Arg	Glu	Ser	Asp	Ser	Glu	Arg	Leu	Lys	Arg	Thr	Ser

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305          310          315          320
Gln Lys Val Asp Leu Ala Leu Lys Gln Leu Gly His Ile Arg Glu Tyr
          325          330          335
Glu Gln Arg Leu Lys Val Leu Glu Arg Glu Val Gln Gln Cys Ser Arg
          340          345          350
Val Leu Gly Trp Val Ala Glu Ala Leu Ser Arg Ser Ala Leu Leu Pro
          355          360          365
Pro Gly Gly Pro Pro Pro Pro Asp Leu Pro Gly Ser Lys Asp
          370          375          380          382

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<210> 1115
<211> 109
<212>Amino acid
<213> Homo sapiens

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<400> 1115
Leu Ile Lys Leu Cys Lys Ser Lys Ala Lys Ser Cys Glu Asn Asp Leu
 1          5          10          15
Glu Met Gly Met Leu Asn Ser Lys Phe Lys Lys Thr Arg Tyr Gln Ala
          20          25          30
Gly Met Arg Asn Ser Glu Asn Leu Thr Ala Asn Asn Thr Leu Ser Lys
          35          40          45
Pro Thr Arg Tyr Gln Gly Glu Leu Lys Glu Ile Lys Gln Asp Ile Ser
          50          55          60
Ser Leu Arg Tyr Glu Leu Leu Glu Glu Lys Ser Gln Ala Thr Gly Glu
          65          70          75          80
Leu Ala Asp Leu Ile Gln Gln Leu Ser Glu Lys Phe Gly Lys Asn Leu
          85          90          95
Asn Lys Asp His Leu Arg Val Asn Lys Gly Lys Asp Ile
          100          105          109

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<210> 1116
<211> 679
<212>Amino acid
<213> Homo sapiens

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<400> 1116
Leu Pro Leu Leu His Ala Gly Phe Asn Arg Arg Phe Met Glu Asn Ser
 1          5          10          15
Ser Ile Ile Ala Cys Tyr Asn Glu Leu Ile Gln Ile Glu His Gly Glu
          20          25          30
Val Arg Ser Gln Phe Lys Leu Arg Ala Cys Asn Ser Val Phe Thr Ala
          35          40          45
Leu Asp His Cys His Glu Ala Ile Glu Ile Thr Ser Asp Asp His Val
          50          55          60
Ile Gln Tyr Val Asn Pro Ala Phe Glu Arg Met Met Gly Tyr His Lys
          65          70          75          80
Gly Glu Leu Leu Gly Lys Glu Leu Ala Asp Leu Pro Lys Ser Asp Lys
          85          90          95
Asn Arg Ala Asp Leu Leu Asp Thr Ile Asn Thr Cys Ile Lys Lys Gly
          100          105          110
Lys Glu Trp Gln Gly Val Tyr Tyr Ala Arg Arg Lys Ser Gly Asp Ser
          115          120          125
Ile Gln Gln His Val Lys Ile Thr Pro Val Ile Gly Gln Gly Gly Lys

```

130		135		140	
Ile Arg His Phe Val Ser	Leu Lys Lys Leu Cys Cys Thr Thr Asp Asn				
145		150		155	160
Asn Lys Gln Ile His Lys	Ile His Arg Asp Ser Gly Asp Asn Ser Gln				
	165		170		175
Thr Glu Pro His Ser Phe	Arg Tyr Lys Asn Arg Arg Lys Glu Ser Ile				
	180		185		190
Asp Val Lys Ser Ile Ser	Ser Arg Gly Ser Asp Ala Pro Ser Leu Gln				
	195		200		205
Asn Arg Arg Tyr Pro Ser	Met Ala Arg Ile His Ser Met Thr Ile Glu				
	210		215		220
Ala Pro Ile Thr Lys Val	Ile Asn Ile Ile Asn Ala Ala Gln Glu Asn				
225		230		235	240
Ser Pro Val Thr Val Ala	Glu Ala Leu Asp Arg Val Leu Glu Ile Leu				
	245		250		255
Arg Thr Thr Glu Leu Tyr	Ser Pro Gln Leu Gly Thr Lys Asp Glu Asp				
	260		265		270
Pro His Thr Ser Asp Leu	Val Gly Gly Leu Met Thr Asp Gly Leu Arg				
	275		280		285
Arg Leu Ser Gly Asn Glu	Tyr Val Phe Thr Lys Asn Val His Gln Ser				
	290		295		300
His Ser His Leu Ala Met	Pro Ile Thr Ile Asn Asp Val Pro Pro Cys				
305		310		315	320
Ile Ser Gln Leu Leu Asp	Asn Glu Glu Ser Trp Asp Phe Asn Ile Phe				
	325		330		335
Glu Leu Glu Ala Ile Thr	His Lys Arg Pro Leu Val Tyr Leu Gly Leu				
	340		345		350
Lys Val Phe Ser Arg Phe	Gly Val Cys Glu Phe Leu Asn Cys Ser Glu				
	355		360		365
Thr Thr Leu Arg Ala Trp	Phe Gln Val Ile Glu Ala Asn Tyr His Ser				
	370		375		380
Ser Asn Ala Tyr His Asn	Ser Thr His Ala Ala Asp Val Leu His Ala				
385		390		395	400
Thr Ala Phe Phe Leu Gly	Lys Glu Arg Val Lys Gly Ser Leu Asp Gln				
	405		410		415
Leu Asp Glu Val Ala Ala	Leu Ile Ala Ala Thr Val His Asp Val Asp				
	420		425		430
His Pro Gly Arg Thr Asn	Ser Phe Leu Cys Asn Ala Gly Ser Glu Leu				
	435		440		445
Ala Val Leu Tyr Asn Asp	Thr Ala Val Leu Glu Ser His His Thr Ala				
450		455		460	
Leu Ala Phe Gln Leu Thr	Val Lys Asp Thr Lys Cys Asn Ile Phe Lys				
465		470		475	480
Asn Ile Asp Arg Gly Asn	His Tyr Arg Thr Leu Arg Gln Ala Ile Ile				
	485		490		495
Asp Met Val Leu Ala Thr	Glu Met Thr Lys His Phe Glu His Val Asn				
	500		505		510
Lys Phe Val Asn Ser Ile	Asn Lys Pro Met Ala Ala Glu Ile Glu Gly				
	515		520		525
Ser Asp Cys Glu Cys Asn	Pro Ala Gly Lys Asn Phe Pro Glu Asn Gln				
	530		535		540
Ile Leu Ile Lys Arg Met	Met Ile Lys Cys Ala Asp Val Ala Asn Pro				
545		550		555	560
Cys Arg Pro Leu Asp Leu	Cys Ile Glu Trp Ala Gly Arg Ile Ser Glu				
	565		570		575
Glu Tyr Phe Ala Gln Thr	Asp Glu Glu Lys Arg Gln Gly Leu Pro Val				
	580		585		590
Val Met Pro Val Phe Asp	Arg Asn Thr Cys Ser Ile Pro Lys Ser Gln				
	595		600		605
Ile Ser Phe Ile Asp Tyr	Phe Ile Thr Asp Met Phe Asp Ala Trp Asp				
	610		615		620
Ala Phe Ala His Leu Pro	Ala Leu Met Gln His Leu Ala Asp Asn Tyr				
625		630		635	640
Lys His Trp Lys Thr Leu	Asp Asp Leu Lys Cys Lys Ser Leu Arg Leu				

				645					650					655			
Pro	Ser	Asp	Arg	Leu	Lys	Pro	Ser	His	Arg	Gly	Gly	Leu	Leu	Thr	Asp		
			660					665					670				
Lys	Gly	His	Cys	Glu	Ser	Gln											
		675				679											

<210> 1117  
 <211> 1193  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1117

Ala	Phe	Leu	Ser	Lys	Val	Glu	Glu	Asp	Asp	Tyr	Pro	Ser	Glu	Glu	Leu		
1				5				10					15				
Leu	Glu	Asp	Glu	Asn	Ala	Ile	Asn	Ala	Lys	Arg	Ser	Lys	Glu	Lys	Asn		
			20					25					30				
Pro	Gly	Asn	Gln	Gly	Arg	Gln	Phe	Asp	Val	Asn	Leu	Gln	Val	Pro	Asp		
		35					40					45					
Arg	Ala	Val	Leu	Gly	Thr	Ile	His	Pro	Asp	Pro	Glu	Ile	Glu	Glu	Ser		
	50					55					60						
Lys	Gln	Glu	Thr	Ser	Met	Ile	Leu	Asp	Ser	Glu	Lys	Thr	Ser	Glu	Thr		
65				70				75						80			
Ala	Ala	Lys	Gly	Val	Asn	Thr	Gly	Gly	Arg	Glu	Pro	Asn	Thr	Met	Val		
				85				90						95			
Glu	Lys	Glu	Arg	Pro	Leu	Ala	Asp	Lys	Lys	Ala	Gln	Arg	Pro	Phe	Glu		
			100					105					110				
Arg	Ser	Asp	Phe	Ser	Asp	Ser	Ile	Lys	Ile	Gln	Thr	Pro	Glu	Leu	Gly		
	115					120						125					
Glu	Val	Phe	Gln	Asn	Lys	Asp	Ser	Asp	Tyr	Leu	Lys	Asn	Asp	Asn	Pro		
130				135						140							
Glu	Glu	His	Leu	Lys	Thr	Ser	Gly	Leu	Ala	Gly	Glu	Pro	Glu	Gly	Glu		
145				150						155					160		
Leu	Ser	Lys	Glu	Asp	His	Glu	Asn	Thr	Glu	Lys	Tyr	Met	Gly	Thr	Glu		
			165					170						175			
Ser	Gln	Gly	Ser	Ala	Ala	Ala	Glu	Pro	Glu	Asp	Asp	Ser	Phe	His	Trp		
		180					185						190				
Thr	Pro	His	Thr	Ser	Val	Glu	Pro	Gly	His	Ser	Asp	Lys	Arg	Glu	Asp		
	195					200						205					
Leu	Leu	Ile	Ile	Ser	Ser	Phe	Lys	Glu	Gln	Gln	Ser	Leu	Gln	Arg			
	210					215				220							
Phe	Gln	Lys	Tyr	Phe	Asn	Val	His	Glu	Leu	Glu	Ala	Leu	Leu	Gln	Glu		
225				230						235				240			
Met	Ser	Ser	Lys	Leu	Lys	Ser	Ala	Gln	Gln	Glu	Ser	Leu	Pro	Tyr	Asn		
			245					250						255			
Met	Glu	Lys	Val	Leu	Asp	Lys	Val	Phe	Arg	Ala	Ser	Glu	Ser	Gln	Ile		
	260							265						270			
Leu	Ser	Ile	Ala	Glu	Lys	Met	Leu	Asp	Thr	Arg	Val	Ala	Glu	Asn	Arg		
	275					280						285					
Asp	Leu	Gly	Met	Asn	Glu	Asn	Asn	Ile	Phe	Glu	Glu	Ala	Ala	Val	Leu		
	290			295								300					
Asp	Asp	Ile	Gln	Asp	Leu	Ile	Tyr	Phe	Val	Arg	Tyr	Lys	His	Ser	Thr		
305				310						315				320			
Ala	Glu	Glu	Thr	Ala	Thr	Leu	Val	Met	Ala	Pro	Pro	Leu	Glu	Glu	Gly		
			325						330					335			
Leu	Gly	Gly	Ala	Met	Glu	Glu	Met	Gln	Pro	Leu	His	Glu	Asp	Asn	Phe		
	340							345					350				
Ser	Arg	Glu	Lys	Thr	Ala	Glu	Leu	Asn	Val	Gln	Val	Pro	Glu	Glu	Pro		
	355					360						365					
Thr	His	Leu	Asp	Gln	Arg	Val	Ile	Gly	Asp	Thr	His	Ala	Ser	Glu	Val		

370	375	380
Ser Gln Lys Pro Asn Thr Glu Lys Asp Leu Asp Pro Gly Pro Val Thr		
385	390	395
Thr Glu Asp Thr Pro Met Asp Ala Ile Asp Ala Asn Lys Gln Pro Glu		400
	405	410
Thr Ala Ala Glu Glu Pro Ala Ser Val Thr Pro Leu Glu Asn Ala Ile		415
	420	425
Leu Leu Ile Tyr Ser Phe Met Phe Tyr Leu Thr Lys Ser Leu Val Ala		430
	435	440
Thr Leu Pro Asp Asp Val Gln Pro Gly Pro Asp Phe Tyr Gly Leu Pro		445
	450	455
Trp Lys Pro Val Phe Ile Thr Ala Phe Leu Gly Ile Ala Ser Phe Ala		460
465	470	475
Ile Phe Leu Trp Arg Thr Val Leu Val Val Lys Asp Arg Val Tyr Gln		480
	485	490
Val Thr Glu Gln Gln Ile Ser Glu Lys Leu Lys Thr Ile Met Lys Glu		495
	500	505
Asn Thr Glu Leu Val Gln Lys Leu Ser Asn Tyr Glu Gln Lys Ile Lys		510
	515	520
Glu Ser Lys Lys His Val Gln Glu Thr Arg Lys Gln Asn Met Ile Leu		525
	530	535
Ser Asp Glu Ala Ile Lys Tyr Lys Asp Lys Ile Lys Thr Leu Glu Lys		540
545	550	555
Asn Gln Glu Ile Leu Asp Asp Thr Ala Lys Asn Leu Arg Val Met Leu		560
	565	570
Glu Ser Glu Arg Glu Gln Asn Val Lys Asn Gln Asp Leu Ile Ser Glu		575
	580	585
Asn Lys Lys Ser Ile Glu Lys Leu Lys Asp Val Ile Ser Met Asn Ala		590
	595	600
Ser Glu Phe Ser Glu Val Gln Ile Ala Leu Asn Glu Ala Lys Leu Ser		605
	610	615
Glu Glu Lys Val Lys Ser Glu Cys His Arg Val Gln Glu Glu Asn Ala		620
625	630	635
Arg Leu Lys Lys Lys Lys Glu Gln Leu Gln Gln Glu Ile Glu Asp Trp		640
	645	650
Ser Lys Leu His Ala Glu Leu Ser Glu Gln Ile Lys Ser Phe Glu Lys		655
	660	665
Ser Gln Lys Asp Leu Glu Val Ala Leu Thr His Lys Asp Asp Asn Ile		670
	675	680
Asn Ala Leu Thr Asn Cys Ile Thr Gln Leu Asn Leu Leu Glu Cys Glu		685
	690	695
Ser Glu Ser Glu Gly Gln Asn Lys Gly Gly Asn Asp Ser Asp Glu Leu		700
705	710	715
Ala Asn Gly Glu Val Gly Gly Asp Arg Asn Glu Lys Met Lys Asn Gln		720
	725	730
Ile Lys Gln Met Met Asp Val Ser Arg Thr Gln Thr Ala Ile Ser Val		735
	740	745
Val Glu Glu Asp Leu Lys Leu Leu Gln Leu Lys Leu Arg Ala Ser Val		750
	755	760
Ser Thr Lys Cys Asn Leu Glu Asp Gln Val Lys Lys Leu Glu Asp Asp		765
	770	775
Arg Asn Ser Leu Gln Ala Lys Ala Gly Leu Glu Asp Glu Cys Lys		780
785	790	795
Thr Leu Arg Gln Lys Val Glu Ile Leu Asn Glu Leu Tyr Gln Gln Lys		800
	805	810
Glu Met Ala Leu Gln Lys Lys Leu Ser Gln Glu Glu Tyr Glu Arg Gln		815
	820	825
Glu Arg Glu His Arg Leu Ser Ala Ala Asp Glu Lys Ala Val Ser Ala		830
	835	840
Ala Glu Glu Val Lys Thr Tyr Lys Arg Arg Ile Glu Glu Met Glu Asp		845
	850	855
Glu Leu Gln Lys Thr Glu Arg Ser Phe Lys Asn Gln Ile Ala Thr His		860
865	870	875
Glu Lys Lys Ala His Glu Asn Trp Leu Lys Ala Arg Ala Ala Glu Arg		880

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      885                      890                      895
Ala Ile Ala Glu Glu Lys Arg Glu Ala Ala Asn Leu Arg His Lys Leu
      900                      905                      910
Leu Asp Leu Thr Gln Lys Met Ala Met Leu Gln Glu Glu Pro Val Ile
      915                      920                      925
Val Lys Pro Met Pro Gly Lys Pro Asn Thr Gln Asn Pro Pro Arg Arg
      930                      935                      940
Gly Pro Leu Ser Gln Asn Gly Ser Phe Gly Pro Ser Pro Val Ser Gly
      945                      950                      955                      960
Gly Glu Cys Ser Pro Pro Leu Thr Val Glu Pro Pro Val Arg Pro Leu
      965                      970                      975
Ser Ala Thr Leu Asn Arg Arg Asp Met Pro Arg Ser Glu Phe Gly Ser
      980                      985                      990
Leu Asp Gly Pro Leu Pro His Pro Arg Trp Ser Ala Glu Ala Ser Gly
      995                      1000                      1005
Lys Pro Ser Pro Ser Asp Pro Gly Ser Gly Thr Ala Thr Met Met Asn
      1010                      1015                      1020
Ser Ser Ser Arg Gly Ser Ser Pro Thr Arg Val Leu Asp Glu Gly Lys
      1025                      1030                      1035                      1040
Val Asn Met Ala Pro Lys Gly Pro Pro Pro Phe Pro Gly Val Pro Leu
      1045                      1050                      1055
Met Ser Thr Pro Met Gly Gly Pro Val Pro Pro Pro Ile Arg Tyr Gly
      1060                      1065                      1070
Pro Pro Pro Gln Leu Cys Gly Pro Phe Gly Pro Arg Pro Leu Pro Pro
      1075                      1080                      1085
Pro Phe Gly Pro Gly Met Arg Pro Pro Leu Gly Leu Arg Glu Phe Ala
      1090                      1095                      1100
Pro Gly Val Pro Pro Gly Arg Arg Asp Leu Pro Leu His Pro Arg Gly
      1105                      1110                      1115                      1120
Phe Leu Pro Gly His Ala Pro Phe Arg Pro Leu Gly Ser Leu Gly Pro
      1125                      1130                      1135
Arg Glu Tyr Phe Ile Pro Gly Thr Arg Leu Pro Pro Pro Thr His Gly
      1140                      1145                      1150
Pro Gln Glu Tyr Pro Pro Pro Pro Ala Val Arg Asp Leu Leu Pro Ser
      1155                      1160                      1165
Gly Ser Arg Asp Glu Pro Pro Ala Ser Gln Ser Thr Ser Gln Asp
      1170                      1175                      1180
Cys Ser Gln Ala Leu Lys Gln Ser Pro
      1185                      1190                      1193

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&lt;210&gt; 1118

&lt;211&gt; 981

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1118

```

Met Ala Ala Asp Ser Glu Pro Glu Ser Glu Val Phe Glu Ile Thr Asp
  1      5      10      15
Phe Thr Thr Ala Ser Glu Trp Glu Arg Phe Ile Ser Lys Val Glu Glu
      20      25      30
Val Leu Asn Asp Trp Lys Leu Ile Gly Asn Ser Leu Gly Lys Pro Leu
      35      40      45
Glu Lys Gly Ile Phe Thr Ser Gly Thr Trp Glu Glu Lys Ser Asp Glu
      50      55      60
Ile Ser Phe Ala Asp Phe Lys Phe Ser Val Thr His His Tyr Leu Val
      65      70      75      80
Gln Glu Ser Thr Asp Lys Glu Gly Lys Asp Glu Leu Leu Glu Asp Val
      85      90      95
Val Pro Gln Ser Met Gln Asp Leu Leu Gly Met Asn Asn Asp Phe Pro

```

100	105	110
Pro Arg Ala His Cys Leu Val	Arg Trp Tyr Gly Leu Arg Glu Phe Val	
115	120	125
Val Ile Ala Pro Ala Ala His	Ser Asp Ala Val Leu Ser Glu Ser Lys	
130	135	140
Cys Asn Leu Leu Leu Ser Ser Val	Ser Ile Ala Leu Gly Asn Thr Gly	
145	150	155
Cys Gln Val Pro Leu Phe Val Gln	Ile His Lys Trp Arg Arg Met	
165	170	175
Tyr Val Gly Glu Cys Gln Gly Pro	Gly Val Arg Thr Asp Phe Glu Met	
180	185	190
Val His Leu Arg Lys Val Pro Asn	Gln Tyr Thr His Leu Ser Gly Leu	
195	200	205
Leu Asp Ile Phe Lys Ser Lys Ile	Gly Cys Pro Leu Thr Pro Leu Pro	
210	215	220
Pro Val Ser Ile Ala Ile Arg Phe	Thr Tyr Val Leu Gln Asp Trp Gln	
225	230	235
Gln Tyr Phe Trp Pro Gln Gln Pro	Pro Asp Ile Asp Ala Leu Val Gly	
245	250	255
Gly Glu Val Gly Gly Leu Glu Phe	Gly Lys Leu Pro Phe Gly Ala Cys	
260	265	270
Glu Asp Pro Ile Ser Glu Leu His	Leu Ala Thr Thr Trp Pro His Leu	
275	280	285
Thr Glu Gly Ile Ile Val Asp Asn	Asp Val Tyr Ser Asp Leu Asp Pro	
290	295	300
Ile Gln Ala Pro His Trp Ser Val	Arg Val Arg Lys Ala Glu Asn Pro	
305	310	315
Gln Cys Leu Leu Gly Asp Phe Val	Thr Glu Phe Phe Lys Ile Cys Arg	
325	330	335
Arg Lys Glu Ser Thr Asp Glu Ile	Leu Gly Arg Ser Ala Phe Glu Glu	
340	345	350
Glu Gly Lys Glu Thr Ala Asp Ile	Thr His Ala Leu Ser Lys Leu Thr	
355	360	365
Glu Pro Ala Ser Val Pro Ile His	Lys Leu Ser Val Ser Asn Met Val	
370	375	380
His Thr Ala Lys Lys Lys Ile Arg	Lys His Arg Gly Val Glu Glu Ser	
385	390	395
Pro Leu Asn Asn Asp Val Leu Asn	Thr Ile Leu Leu Phe Leu Phe Pro	
405	410	415
Asp Ala Val Ser Glu Lys Pro Leu	Asp Gly Thr Thr Ser Thr Asp Asn	
420	425	430
Asn Asn Pro Pro Ser Glu Ser Glu	Asp Tyr Asn Leu Tyr Asn Gln Phe	
435	440	445
Lys Ser Ala Pro Ser Asp Ser Leu	Thr Tyr Lys Leu Ala Leu Cys Leu	
450	455	460
Cys Met Ile Asn Phe Tyr His Gly	Gly Leu Lys Gly Val Ala His Leu	
465	470	475
Trp Gln Glu Phe Val Leu Glu Met	Arg Phe Arg Trp Glu Asn Asn Phe	
485	490	495
Leu Ile Pro Gly Leu Ala Ser Gly	Pro Pro Asp Leu Arg Cys Cys Leu	
500	505	510
Leu His Gln Lys Leu Gln Met Leu	Asn Cys Cys Ile Glu Arg Lys Lys	
515	520	525
Ala Arg Asp Glu Gly Lys Lys Thr	Ser Ala Ser Asp Val Thr Asn Ile	
530	535	540
Tyr Pro Gly Asp Ala Gly Lys Ala	Gly Asp Gln Leu Val Pro Asp Asn	
545	550	555
Leu Lys Glu Thr Asp Lys Glu Lys	Gly Glu Val Gly Lys Ser Trp Asp	
565	570	575
Ser Trp Ser Asp Ser Glu Glu Glu	Phe Phe Glu Cys Leu Ser Asp Thr	
580	585	590
Glu Glu Leu Lys Gly Asn Gly Gln	Glu Ser Gly Lys Lys Gly Gly Pro	
595	600	605
Lys Glu Met Ala Asn Leu Arg Pro	Glu Gly Arg Leu Tyr Gln His Gly	

```

        610                615                620
Lys Leu Thr Leu Leu His Asn Gly Glu Pro Leu Tyr Ile Pro Val Thr
625                630                635                640
Gln Glu Pro Ala Pro Met Thr Glu Asp Leu Leu Glu Glu Gln Ser Glu
        645                650                655
Val Leu Ala Lys Leu Gly Thr Ser Ala Glu Gly Ala His Leu Arg Ala
        660                665                670
Arg Met Gln Ser Ala Cys Leu Leu Ser Asp Met Glu Ser Phe Lys Ala
        675                680                685
Ala Asn Pro Gly Cys Ser Leu Glu Asp Phe Val Arg Trp Tyr Ser Pro
        690                695                700
Arg Asp Tyr Ile Glu Glu Glu Val Ile Asp Glu Lys Gly Asn Val Val
705                710                715                720
Leu Lys Gly Glu Leu Ser Ala Arg Met Lys Ile Pro Ser Asn Met Trp
        725                730                735
Val Glu Ala Trp Glu Thr Ala Lys Pro Ile Pro Ala Arg Arg Gln Arg
        740                745                750
Arg Leu Phe Asp Asp Thr Arg Glu Ala Glu Lys Val Leu His Tyr Leu
        755                760                765
Ala Ile Gln Lys Pro Ala Asp Leu Ala Arg His Leu Leu Pro Cys Val
        770                775                780
Ile His Ala Ala Val Leu Lys Val Lys Glu Glu Glu Ser Leu Glu Asn
785                790                795                800
Ile Ser Ser Val Lys Lys Ile Ile Lys Gln Ile Ile Ser His Ser Ser
        805                810                815
Lys Val Leu His Phe Pro Asn Pro Glu Asp Lys Lys Leu Glu Glu Ile
        820                825                830
Ile His Gln Ile Thr Asn Val Glu Ala Leu Ile Ala Arg Ala Arg Ser
        835                840                845
Leu Lys Ala Lys Phe Gly Thr Glu Lys Cys Glu Gln Glu Glu Glu Lys
        850                855                860
Glu Asp Leu Glu Arg Phe Val Ser Cys Leu Leu Glu Gln Pro Glu Val
865                870                875                880
Leu Val Thr Gly Ala Gly Arg Gly His Ala Gly Arg Ile Ile His Lys
        885                890                895
Leu Phe Val Asn Ala Gln Arg Ala Ala Ala Met Thr Pro Pro Glu Glu
        900                905                910
Glu Leu Lys Arg Met Gly Ser Pro Glu Glu Arg Arg Gln Asn Ser Val
        915                920                925
Ser Asp Phe Pro Pro Pro Ala Gly Arg Glu Phe Ile Leu Arg Thr Thr
        930                935                940
Val Pro Arg Pro Ala Pro Tyr Ser Lys Ala Leu Pro Gln Arg Met Tyr
945                950                955                960
Ser Val Leu Thr Lys Glu Asp Phe Arg Leu Ala Gly Ala Phe Ser Ser
        965                970                975
Asp Thr Ser Phe Phe
        980 981

```

&lt;210&gt; 1119

&lt;211&gt; 554

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1119

```

Ser Pro Thr Arg Thr Gly Asp Arg Ser Val Ser Leu Ile Val Phe Leu
1          5          10          15
Thr Glu Gly Lys Pro Thr Val Gly Glu Thr His Thr Leu Lys Ile Leu
        20          25          30
Asn Asn Thr Arg Glu Ala Ala Arg Gly Gln Val Cys Ile Phe Thr Ile

```



[illegible]

545

550

554

<210> 1120  
 <211> 107  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1120  
 Val Pro Leu Glu Ser Leu Ser Cys Ser His Ala Asp Asn Trp Lys Gln  
 1 5 10 15  
 Glu Leu Thr Lys Phe Ile Ser Pro Asp Gln Leu Pro Val Glu Phe Gly  
 20 25 30  
 Gly Thr Met Thr Asp Pro Asp Gly Asn Pro Lys Cys Leu Thr Lys Ile  
 35 40 45  
 Asn Tyr Gly Gly Glu Val Pro Lys Ser Tyr Tyr Leu Cys Lys Gln Val  
 50 55 60  
 Arg Leu Gln Tyr Glu His Thr Arg Ser Val Gly Arg Gly Ser Ser Leu  
 65 70 75 80  
 Gln Val Glu Asn Glu Ile Leu Phe Pro Gly Cys Val Leu Arg Cys Pro  
 85 90 95  
 Glu Val Leu Gln His Leu Gln Pro Gly Ser Phe  
 100 105 107

<210> 1121  
 <211> 1241  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1121  
 Pro Ala Ala Pro Glu His Thr Asp Pro Ser Glu Pro Arg Gly Ser Val  
 1 5 10 15  
 Ser Cys Cys Ser Leu Leu Arg Gly Leu Ser Ser Gly Trp Ser Ser Pro  
 20 25 30  
 Leu Leu Pro Ala Pro Val Cys Asn Pro Asn Lys Ala Ile Phe Thr Val  
 35 40 45  
 Asp Ala Lys Thr Thr Glu Ile Leu Val Ala Asn Asp Lys Ala Cys Gly  
 50 55 60  
 Leu Leu Gly Tyr Ser Ser Gln Asp Leu Ile Gly Gln Lys Leu Thr Gln  
 65 70 75 80  
 Phe Phe Leu Arg Ser Asp Ser Asp Val Val Glu Ala Leu Ser Glu Glu  
 85 90 95  
 His Met Glu Ala Asp Gly His Ala Ala Val Val Phe Gly Thr Val Val  
 100 105 110  
 Asp Ile Ile Ser Arg Ser Gly Glu Lys Ile Pro Val Ser Val Trp Met  
 115 120 125  
 Lys Arg Met Arg Gln Glu Arg Arg Leu Cys Cys Val Val Val Leu Glu  
 130 135 140  
 Pro Val Glu Arg Val Ser Thr Trp Val Ala Phe Gln Ser Asp Gly Thr  
 145 150 155 160  
 Val Thr Ser Cys Asp Ser Leu Phe Ala His Leu His Gly Tyr Val Ser  
 165 170 175  
 Gly Glu Asp Val Ala Gly Gln His Ile Thr Asp Leu Ile Pro Ser Val  
 180 185 190  
 Gln Leu Pro Pro Ser Gly Gln His Ile Pro Lys Asn Leu Lys Ile Gln

195	200	205
Arg Ser Val Gly Arg Ala Arg Asp Gly Thr Thr Phe Pro Leu Ser Leu		
210	215	220
Lys Leu Lys Ser Gln Pro Ser Ser Glu Glu Ala Thr Thr Gly Glu Ala		
225	230	235
Ala Pro Val Ser Gly Tyr Arg Ala Ser Val Trp Val Phe Cys Thr Ile		240
	245	250
Ser Gly Leu Ile Thr Leu Leu Pro Asp Gly Thr Ile His Gly Ile Asn		255
	260	265
His Ser Phe Ala Leu Thr Leu Phe Gly Tyr Gly Lys Thr Glu Leu Leu		270
	275	280
Gly Lys Asn Ile Thr Phe Leu Ile Pro Gly Phe Tyr Ser Tyr Met Asp		285
	290	295
Leu Ala Tyr Asn Ser Ser Leu Gln Leu Pro Asp Leu Ala Ser Cys Leu		300
305	310	315
Asp Val Gly Asn Glu Ser Gly Cys Gly Glu Arg Thr Leu Asp Pro Trp		320
	325	330
Gln Gly Gln Asp Pro Ala Glu Gly Gly Gln Asp Pro Arg Ile Asn Val		335
	340	345
Val Leu Ala Gly Gly His Val Val Pro Arg Asp Glu Ile Arg Lys Leu		350
	355	360
Met Glu Ser Gln Asp Ile Phe Thr Gly Thr Gln Thr Glu Leu Ile Ala		365
	370	375
Gly Gly Gln Leu Leu Ser Cys Leu Ser Pro Gln Pro Ala Pro Gly Val		380
385	390	395
Asp Asn Val Pro Glu Gly Ser Leu Pro Val His Gly Glu Gln Ala Leu		400
	405	410
Pro Lys Asp Gln Gln Ile Thr Ala Leu Gly Arg Glu Glu Pro Val Ala		415
	420	425
Ile Glu Ser Pro Gly Gln Asp Leu Leu Gly Glu Ser Arg Ser Glu Pro		430
	435	440
Val Asp Val Lys Pro Phe Ala Ser Cys Glu Asp Ser Glu Ala Pro Val		445
	450	455
Pro Ala Glu Asp Gly Gly Ser Asp Ala Gly Met Cys Gly Leu Cys Gln		460
465	470	475
Lys Ala Gln Leu Glu Arg Met Gly Val Ser Gly Pro Ser Gly Ser Asp		480
	485	490
Leu Trp Ala Gly Ala Ala Val Ala Lys Pro Gln Ala Lys Gly Gln Leu		495
	500	505
Ala Gly Gly Ser Leu Leu Met His Cys Pro Cys Tyr Gly Ser Glu Trp		510
	515	520
Gly Leu Trp Trp Arg Ser Gln Asp Leu Ala Pro Ser Pro Ser Gly Met		525
	530	535
Ala Gly Leu Ser Phe Gly Thr Pro Thr Leu Asp Glu Pro Trp Leu Gly		540
545	550	555
Val Glu Asn Asp Arg Glu Glu Leu Gln Thr Cys Leu Ile Lys Glu Gln		560
	565	570
Leu Ser Gln Leu Ser Leu Ala Gly Ala Leu Asp Val Pro His Ala Glu		575
	580	585
Leu Val Pro Thr Glu Cys Gln Ala Val Thr Ala Pro Val Ser Ser Cys		590
	595	600
Asp Leu Gly Gly Arg Asp Leu Cys Gly Gly Cys Thr Gly Ser Ser Ser		605
	610	615
Ala Cys Tyr Ala Leu Ala Thr Asp Leu Pro Gly Gly Leu Glu Ala Val		620
625	630	635
Glu Ala Gln Glu Val Asp Val Asn Ser Phe Ser Trp Asn Leu Lys Glu		640
	645	650
Leu Phe Phe Ser Asp Gln Thr Asp Gln Thr Ser Ser Asn Cys Ser Cys		655
	660	665
Ala Thr Ser Glu Leu Arg Glu Thr Pro Ser Ser Leu Ala Val Gly Ser		670
	675	680
Asp Pro Asp Val Gly Ser Leu Gln Glu Gln Gly Ser Cys Val Leu Asp		685
	690	695
Asp Arg Glu Leu Leu Leu Leu Thr Gly Thr Cys Val Asp Leu Gly Gln		700

705					710					715					720
Gly	Arg	Arg	Phe	Arg	Glu	Ser	Cys	Val	Gly	His	Asp	Pro	Thr	Glu	Pro
				725					730					735	
Leu	Glu	Val	Cys	Leu	Val	Ser	Ser	Glu	His	Tyr	Ala	Ala	Ser	Asp	Arg
			740					745					750		
Glu	Ser	Pro	Gly	His	Val	Pro	Ser	Thr	Leu	Asp	Ala	Gly	Pro	Glu	Asp
		755					760					765			
Thr	Cys	Pro	Ser	Ala	Glu	Glu	Pro	Arg	Leu	Asn	Val	Gln	Val	Thr	Ser
	770					775					780				
Thr	Pro	Val	Ile	Val	Met	Arg	Gly	Ala	Ala	Gly	Leu	Gln	Arg	Glu	Ile
785					790					795					800
Gln	Glu	Gly	Ala	Tyr	Ser	Gly	Ser	Cys	Tyr	His	Arg	Asp	Gly	Leu	Arg
				805					810					815	
Leu	Ser	Ile	Gln	Phe	Glu	Val	Arg	Arg	Val	Glu	Leu	Gln	Gly	Pro	Thr
			820					825					830		
Pro	Leu	Phe	Cys	Cys	Trp	Leu	Val	Lys	Asp	Leu	Leu	His	Ser	Gln	Arg
		835					840					845			
Asp	Ser	Ala	Ala	Arg	Thr	Arg	Leu	Phe	Leu	Ala	Ser	Leu	Pro	Gly	Ser
	850					855					860				
Thr	His	Ser	Thr	Ala	Ala	Glu	Leu	Thr	Gly	Pro	Ser	Leu	Val	Glu	Val
865					870					875					880
Leu	Arg	Ala	Arg	Pro	Trp	Phe	Glu	Glu	Pro	Pro	Lys	Ala	Val	Glu	Leu
				885					890					895	
Glu	Gly	Leu	Ala	Ala	Cys	Glu	Gly	Glu	Tyr	Ser	Gln	Lys	Tyr	Ser	Thr
			900					905					910		
Met	Ser	Pro	Leu	Gly	Ser	Gly	Ala	Phe	Gly	Phe	Val	Trp	Thr	Ala	Val
		915					920					925			
Asp	Lys	Glu	Lys	Asn	Lys	Glu	Val	Val	Val	Lys	Phe	Ile	Lys	Lys	Glu
	930					935					940				
Lys	Val	Leu	Glu	Asp	Cys	Trp	Ile	Glu	Asp	Pro	Lys	Leu	Gly	Lys	Val
945					950					955					960
Thr	Leu	Glu	Ile	Ala	Ile	Leu	Ser	Arg	Val	Glu	His	Ala	Asn	Ile	Ile
				965					970					975	
Lys	Val	Leu	Asp	Ile	Phe	Glu	Asn	Gln	Gly	Phe	Phe	Gln	Leu	Val	Met
			980					985					990		
Glu	Lys	His	Gly	Ser	Gly	Leu	Asp	Leu	Phe	Ala	Phe	Ile	Asp	Arg	His
		995				1000						1005			
Pro	Arg	Leu	Asp	Glu	Pro	Leu	Ala	Ser	Tyr	Ile	Phe	Arg	Gln	Val	Arg
	1010					1015					1020				
Ala	Gly	Gln	Ser	Arg	Leu	Val	Ser	Ala	Val	Gly	Tyr	Leu	Arg	Leu	Lys
1025					1030					1035					1040
Asp	Ile	Ile	His	Arg	Asp	Ile	Lys	Asp	Glu	Asn	Ile	Val	Ile	Ala	Glu
				1045					1050				1055		
Asp	Phe	Thr	Ile	Lys	Leu	Ile	Asp	Phe	Gly	Ser	Ala	Ala	Tyr	Leu	Glu
		1060						1065					1070		
Arg	Gly	Lys	Leu	Phe	Tyr	Thr	Phe	Cys	Gly	Thr	Ile	Glu	Tyr	Cys	Ala
	1075					1080					1085				
Pro	Glu	Val	Leu	Met	Gly	Asn	Pro	Tyr	Arg	Gly	Pro	Glu	Leu	Glu	Met
	1090				1095					1100					
Trp	Ser	Leu	Gly	Val	Thr	Leu	Tyr	Thr	Leu	Val	Phe	Glu	Glu	Asn	Pro
1105				1110					1115					1120	
Phe	Cys	Glu	Leu	Glu	Thr	Val	Glu	Ala	Ala	Ile	His	Pro	Pro	Tyr	
			1125					1130				1135			
Leu	Val	Ser	Lys	Glu	Leu	Met	Ser	Leu	Val	Ser	Gly	Leu	Leu	Gln	Pro
		1140						1145				1150			
Val	Pro	Glu	Arg	Arg	Thr	Thr	Leu	Glu	Lys	Leu	Val	Thr	Asp	Pro	Trp
	1155					1160					1165				
Val	Thr	Gln	Pro	Val	Asn	Leu	Ala	Asp	Tyr	Thr	Trp	Glu	Glu	Val	Phe
	1170				1175					1180					
Arg	Val	Asn	Lys	Pro	Glu	Ser	Gly	Val	Leu	Ser	Ala	Ala	Ser	Leu	Glu
1185				1190					1195					1200	
Met	Gly	Asn	Arg	Ser	Leu	Ser	Asp	Val	Ala	Gln	Ala	Gln	Glu	Leu	Cys
			1205					1210				1215			
Gly	Gly	Pro	Val	Pro	Gly	Glu	Ala	Pro	Asn	Gly	Gln	Gly	Cys	Leu	His

```
<210> 1122
<211> 395
<212> Amino acid
<213> Homo sapiens
```

653

385

390

395

<210> 1123  
 <211> 328  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1123  
 Leu Ala Gly Val Gly Thr Gln Ala Pro Pro Arg Arg Pro Gly Gly Glu  
 1 5 10 15  
 Met Ala Ala Gly Gln Asn Gly His Glu Trp Val Gly Ser Ala Tyr  
 20 25 30  
 Leu Phe Val Glu Ser Ser Leu Asp Lys Val Val Leu Ser Asp Ala Tyr  
 35 40 45  
 Ala His Pro Gln Gln Lys Val Ala Val Tyr Arg Ala Leu Gln Ala Ala  
 50 55 60  
 Leu Ala Glu Ser Gly Gly Ser Pro Asp Val Leu Gln Met Leu Lys Ile  
 65 70 75 80  
 His Arg Ser Asp Pro Gln Leu Ile Val Gln Leu Arg Phe Cys Gly Arg  
 85 90 95  
 Gln Pro Cys Gly Arg Phe Leu Arg Ala Tyr Arg Glu Gly Ala Leu Arg  
 100 105 110  
 Ala Ala Leu Gln Arg Ser Leu Ala Ala Ala Leu Ala Gln His Ser Val  
 115 120 125  
 Pro Leu Gln Leu Asp Leu Arg Ala Gly Ala Glu Arg Leu Glu Ala Leu  
 130 135 140  
 Leu Ala Asp Glu Glu Arg Cys Leu Ser Cys Ile Leu Ala Gln Gln Pro  
 145 150 155 160  
 Asp Arg Leu Arg Asp Glu Glu Leu Ala Glu Leu Glu Asp Ala Leu Arg  
 165 170 175  
 Asn Leu Lys Cys Gly Ser Gly Ala Arg Gly Gly Asp Gly Glu Val Ala  
 180 185 190  
 Ser Ala Pro Leu Gln Pro Pro Val Pro Ser Leu Ser Glu Val Lys Pro  
 195 200 205  
 Pro Pro Pro Pro Pro Pro Ala Gln Thr Phe Leu Phe Gln Gly Gln Pro  
 210 215 220  
 Val Val Asn Arg Pro Leu Ser Leu Lys Asp Gln Gln Thr Phe Ala Arg  
 225 230 235 240  
 Ser Val Gly Leu Lys Trp Arg Lys Val Gly Arg Ser Leu Gln Arg Gly  
 245 250 255  
 Cys Arg Ala Leu Arg Asp Pro Ala Leu Asp Ser Leu Ala Tyr Glu Tyr  
 260 265 270  
 Glu Arg Glu Gly Leu Tyr Glu Gln Ala Phe Gln Leu Leu Arg Arg Phe  
 275 280 285  
 Val Gln Ala Glu Gly Arg Arg Ala Thr Leu Gln Arg Leu Val Glu Ala  
 290 295 300  
 Leu Glu Glu Asn Glu Leu Thr Ser Leu Ala Glu Asp Leu Leu Gly Leu  
 305 310 315 320  
 Thr Asp Pro Asn Gly Gly Leu Ala  
 325 328

<210> 1124  
 <211> 667  
 <212> Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

&lt;222&gt; (1)...(667)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1124

```

Ser Ser Lys Pro Lys Leu Lys Lys Arg Phe Ser Leu Arg Ser Val Gly
 1          5          10          15
Arg Ser Val Arg Gly Ser Val Arg Gly Ile Leu Gln Trp Arg Gly Thr
          20          25          30
Val Asp Pro Pro Ser Ser Ala Gly Pro Leu Glu Thr Ser Ser Gly Pro
          35          40          45
Pro Val Leu Gly Gly Asn Ser Asn Ser Asn Ser Ser Gly Gly Ala Gly
          50          55          60
Thr Val Gly Arg Gly Leu Val Ser Asp Gly Thr Ser Pro Gly Glu Arg
          65          70          75          80
Trp Thr His Arg Phe Glu Arg Leu Arg Leu Ser Arg Gly Gly Gly Ala
          85          90          95
Leu Lys Asp Gly Ala Gly Met Val Gln Arg Glu Glu Leu Leu Ser Phe
          100          105          110
Met Gly Ala Glu Glu Ala Ala Pro Asp Pro Ala Gly Val Gly Arg Gly
          115          120          125
Gly Gly Val Ala Gly Pro Pro Ser Gly Gly Gly Gly Gln Pro Gln Trp
          130          135          140
Gln Lys Cys Arg Leu Leu Leu Arg Ser Glu Gly Glu Gly Gly Gly Gly
          145          150          155          160
Ser Arg Leu Glu Phe Phe Val Pro Pro Lys Ala Ser Arg Pro Arg Leu
          165          170          175
Ser Ile Pro Cys Ser Ser Ile Thr Asp Val Arg Thr Thr Thr Ala Leu
          180          185          190
Glu Met Pro Asp Arg Glu Asn Thr Phe Val Val Lys Val Glu Gly Pro
          195          200          205
Ser Glu Tyr Ile Met Glu Thr Val Asp Ala Gln His Val Lys Ala Trp
          210          215          220
Val Ser Asp Ile Gln Glu Cys Leu Ser Pro Gly Pro Cys Pro Ala Thr
          225          230          235          240
Ser Pro Arg Pro Met Thr Leu Pro Leu Ala Pro Gly Thr Ser Phe Leu
          245          250          255
Thr Arg Glu Asn Thr Asp Ser Leu Glu Leu Ser Cys Leu Asn His Ser
          260          265          270
Glu Ser Leu Pro Ser Gln Asp Leu Leu Leu Gly Pro Ser Glu Ser Asn
          275          280          285
Asp Arg Leu Ser Gln Gly Ala Tyr Gly Gly Leu Ser Asp Arg Pro Ser
          290          295          300
Ala Ser Ile Ser Pro Ser Ser Ala Ser Ile Ala Ala Ser His Phe Asp
          305          310          315          320
Ser Met Glu Leu Leu Pro Pro Glu Leu Pro Pro Arg Ile Pro Ile Glu
          325          330          335
Glu Gly Pro Pro Ala Gly Thr Val His Pro Leu Ser Ala Pro Tyr Pro
          340          345          350
Pro Leu Asp Thr Pro Glu Thr Ala Thr Gly Ser Phe Leu Phe Gln Gly
          355          360          365
Glu Pro Glu Gly Gly Glu Gly Asp Gln Pro Leu Ser Gly Tyr Pro Trp
          370          375          380
Phe His Gly Met Leu Ser Arg Leu Lys Ala Ala Gln Leu Val Leu Thr
          385          390          395          400
Gly Gly Thr Gly Ser His Gly Val Phe Leu Val Arg Gln Ser Glu Thr
          405          410          415
Arg Arg Gly Glu Tyr Val Leu Thr Phe Asn Phe Gln Gly Lys Ala Lys
          420          425          430
His Leu Arg Leu Ser Leu Asn Glu Gly Gln Cys Arg Val Gln His
          435          440          445

```

```

Leu Trp Phe Gln Ser Ile Phe Asp Met Leu Glu His Phe Arg Val His
  450                      455                      460
Pro Ile Pro Leu Glu Ser Gly Gly Ser Ser Asp Val Val Leu Val Ser
  465                      470                      475                      480
Tyr Val Pro Ser Ser Gln Arg Gln Gln Gly Glu Gln Ser Arg Ser Ala
                      485                      490                      495
Gly Glu Glu Val Pro Val His Pro Arg Ser Glu Ala Gly Ser Arg Leu
                      500                      505                      510
Gly Ala Met Arg Gly Cys Ala Arg Glu Met Asp Ala Thr Pro Asn Ala
                      515                      520                      525
Ser Cys Thr Leu Met Pro Phe Gly Ala Ser Asp Cys Glu Pro Thr Thr
                      530                      535                      540
Ser His Asp Pro Pro Gln Pro Pro Glu Pro Pro Ser Trp Thr Asp Pro
  545                      550                      555                      560
Pro Gln Pro Gly Glu Glu Glu Ala Ser Arg Ala Pro Gly Ser Gly Gly
                      565                      570                      575
Gln Gln Ala Ala Ala Ala Ala Lys Glu Arg Gln Glu Lys Glu Lys Ala
                      580                      585                      590
Gly Gly Gly Gly Val Pro Glu Glu Leu Val Pro Val Val Xaa Leu Val
                      595                      600                      605
Pro Val Gly Glu Leu Gly Glu Gly His Arg Pro Gln Ala Gln Glu Ala
  610                      615                      620
Gln Gly Arg Leu Gly Pro Gly Gly Asp Ala Gly Val Pro Pro Met Val
  625                      630                      635                      640
Gln Leu Gln Gln Ser Pro Leu Gly Gly Asp Gly Glu Glu Gly Gly His
                      645                      650                      655
Pro Arg Ala Ile Asn Asn Gln Tyr Ser Phe Val
                      660                      665                      667

```

<210> 1125  
 <211> 387  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 1125
Phe Arg Ala Pro Val Gly Thr Ala Ala Arg Ser Pro Gln Val Val Ile
  1                      5                      10                      15
Arg Arg Leu Pro Pro Gly Leu Thr Lys Glu Gln Leu Glu Glu Gln Leu
                      20                      25                      30
Arg Pro Leu Pro Ala His Asp Tyr Phe Glu Phe Phe Ala Ala Asp Leu
                      35                      40                      45
Ser Leu Tyr Pro His Leu Tyr Ser Arg Ala Tyr Ile Asn Phe Arg Asn
  50                      55                      60
Pro Asp Asp Ile Leu Leu Phe Arg Asp Arg Phe Asp Gly Tyr Ile Phe
  65                      70                      75                      80
Leu Asp Ser Lys Asp Pro Glu Tyr Lys Lys Phe Leu Glu Thr Tyr Cys
                      85                      90                      95
Val Glu Glu Glu Lys Thr Ser Ala Asn Pro Glu Thr Leu Leu Gly Glu
                      100                      105                      110
Met Glu Ala Lys Thr Arg Glu Leu Ile Ala Arg Arg Thr Thr Pro Leu
                      115                      120                      125
Leu Glu Tyr Ile Lys Asn Arg Lys Leu Glu Lys Gln Arg Ile Arg Glu
  130                      135                      140
Glu Lys Arg Glu Glu Arg Arg Arg Arg Glu Leu Glu Lys Lys Arg Leu
  145                      150                      155                      160
Arg Glu Glu Glu Lys Arg Arg Arg Arg Glu Glu Glu Arg Cys Lys Lys
                      165                      170                      175
Lys Glu Thr Asp Lys Gln Lys Lys Ile Ala Glu Lys Glu Val Arg Ile
                      180                      185                      190

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Lys Leu Leu Lys Lys Pro Glu Lys Gly Glu Glu Pro Thr Thr Glu Lys  
 195 200 205  
 Pro Lys Glu Arg Gly Glu Glu Ile Asp Thr Gly Gly Gly Lys Gln Glu  
 210 215 220  
 Ser Cys Ala Pro Gly Ala Val Val Lys Ala Arg Pro Met Glu Gly Ser  
 225 230 235 240  
 Leu Glu Glu Pro Gln Glu Thr Ser His Ser Gly Ser Asp Lys Glu His  
 245 250 255  
 Arg Asp Val Glu Arg Ser Gln Glu Gln Glu Ser Glu Ala Gln Arg Tyr  
 260 265 270  
 His Val Asp Asp Gly Arg Arg His Arg Ala His His Glu Pro Glu Arg  
 275 280 285  
 Leu Ser Arg Arg Ser Glu Asp Glu Gln Arg Trp Gly Lys Gly Pro Gly  
 290 295 300  
 Gln Asp Arg Gly Lys Lys Gly Ser Gln Asp Ser Gly Ala Pro Gly Glu  
 305 310 315 320  
 Ala Met Glu Arg Leu Gly Arg Ala Gln Arg Cys Asp Asp Ser Pro Ala  
 325 330 335  
 Pro Arg Lys Glu Arg Leu Ala Asn Lys Asp Arg Pro Ala Leu Gln Leu  
 340 345 350  
 Tyr Asp Pro Gly Ala Arg Phe Arg Ala Arg Glu Cys Gly Gly Asn Arg  
 355 360 365  
 Arg Ile Cys Lys Ala Glu Gly Ser Gly Thr Gly Pro Glu Lys Arg Glu  
 370 375 380  
 Glu Ala Glu  
 385 387

<210> 1126  
 <211> 208  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1126  
 Gly Val Trp Gly Val Cys Val Ser Gly Leu Leu Gln Val Gly Ser Gln  
 1 5 10 15  
 Arg Ala Gln Ala Trp Arg Ala Trp Ser Pro Met Glu Thr Pro Leu Thr  
 20 25 30  
 Gly Thr Phe Leu Trp Pro His Ile Pro Gln Gly Leu Phe Phe Asp Asp  
 35 40 45  
 Ser Tyr Gly Phe Tyr Pro Gly Gln Val Leu Ile Gly Pro Ala Lys Ile  
 50 55 60  
 Phe Ser Ser Val Gln Trp Leu Ser Gly Val Lys Pro Val Leu Ser Thr  
 65 70 75 80  
 Lys Ser Lys Phe Arg Val Val Val Glu Glu Val Gln Val Val Glu Leu  
 85 90 95  
 Lys Val Thr Trp Ile Thr Lys Ser Phe Cys Pro Gly Gly Thr Asp Ser  
 100 105 110  
 Val Ser Pro Pro Pro Ser Val Ile Thr Gln Glu Asn Leu Gly Arg Val  
 115 120 125  
 Lys Arg Leu Gly Cys Phe Asp His Ala Gln Arg His Ala Trp Gly Ala  
 130 135 140  
 Leu Ser Val Cys Leu Pro Ser Gln Gly Arg Ala Ser Gln Asp Cys Leu  
 145 150 155 160  
 Gly Met Ser Arg Lys Lys Leu Arg Pro Gly Gly Gly Leu Tyr Gly Gln  
 165 170 175  
 Glu Gly Glu Ala Pro Val Glu Glu Ala Gly Cys Ala Asp His Val Met  
 180 185 190  
 Leu Pro Arg His Pro Val Phe Pro Gly Pro Phe His Gly Arg Pro Arg  
 195 200 205 208

<210> 1127  
 <211> 670  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1127  
 Phe Arg Asp Ser Ser Pro Cys Ser Ala Phe Glu Phe His Cys Leu Ser  
 1 5 10 15  
 Gly Glu Cys Ile His Ser Ser Trp Arg Cys Asp Gly Gly Pro Asp Cys  
 20 25 30  
 Lys Asp Lys Ser Asp Glu Glu Asn Cys Ala Val Ala Thr Cys Arg Pro  
 35 40 45  
 Asp Glu Phe Gln Cys Ser Asp Gly Asn Cys Ile His Gly Ser Arg Gln  
 50 55 60  
 Cys Asp Arg Glu Tyr Asp Cys Lys Asp Met Ser Asp Glu Val Gly Cys  
 65 70 75 80  
 Val Asn Val Thr Leu Cys Glu Gly Pro Asn Lys Phe Lys Cys His Ser  
 85 90 95  
 Gly Glu Cys Ile Thr Leu Asp Lys Val Cys Asn Met Ala Arg Asp Cys  
 100 105 110  
 Arg Asp Trp Ser Asp Glu Pro Ile Lys Glu Cys Gly Thr Asn Glu Cys  
 115 120 125  
 Leu Asp Asn Asn Gly Gly Cys Ser His Val Cys Asn Asp Leu Lys Ile  
 130 135 140  
 Gly Tyr Glu Cys Leu Cys Pro Asp Gly Phe Gln Leu Val Ala Gln Arg  
 145 150 155 160  
 Arg Cys Glu Asp Ile Asp Glu Cys Gln Asp Pro Asp Thr Cys Ser Gln  
 165 170 175  
 Leu Cys Val Asn Leu Glu Gly Gly Tyr Lys Cys Gln Cys Glu Glu Gly  
 180 185 190  
 Phe Gln Leu Asp Pro His Thr Lys Ala Cys Lys Ala Val Gly Ser Ile  
 195 200 205  
 Ala Tyr Leu Phe Phe Thr Asn Arg His Glu Val Arg Lys Met Thr Leu  
 210 215 220  
 Asp Arg Ser Glu Tyr Thr Ser Leu Ile Pro Asn Leu Arg Asn Val Val  
 225 230 235 240  
 Ala Leu Asp Thr Glu Val Ala Ser Asn Arg Ile Tyr Trp Ser Asp Leu  
 245 250 255  
 Ser Gln Arg Met Ile Cys Ser Thr Gln Leu Asp Arg Ala His Gly Val  
 260 265 270  
 Ser Ser Tyr Asp Thr Val Ile Ser Arg Asp Ile Gln Ala Pro Asp Gly  
 275 280 285  
 Leu Ala Val Asp Trp Ile His Ser Asn Ile Tyr Trp Thr Asp Ser Val  
 290 295 300  
 Leu Gly Thr Val Ser Val Ala Asp Thr Lys Gly Val Lys Arg Lys Thr  
 305 310 315 320  
 Leu Phe Arg Glu Asn Gly Ser Lys Pro Arg Ala Ile Val Val Asp Pro  
 325 330 335  
 Val His Gly Phe Met Tyr Trp Thr Asp Trp Gly Thr Pro Ala Lys Ile  
 340 345 350  
 Lys Lys Gly Gly Leu Asn Gly Val Asp Ile Tyr Ser Leu Val Thr Glu  
 355 360 365  
 Asn Ile Gln Trp Pro Asn Gly Ile Thr Leu Asp Leu Leu Ser Gly Arg  
 370 375 380  
 Leu Tyr Trp Val Asp Ser Lys Leu His Ser Ile Ser Ser Ile Asp Val  
 385 390 395 400

Asn Gly Gly Asn Arg Lys Thr Ile Leu Glu Asp Glu Lys Arg Leu Ala  
 405 410 415  
 His Pro Phe Ser Leu Ala Val Phe Glu Asp Lys Val Phe Trp Thr Asp  
 420 425 430  
 Ile Ile Asn Glu Ala Ile Phe Ser Ala Asn Arg Leu Thr Gly Ser Asp  
 435 440 445  
 Val Asn Leu Leu Ala Glu Asn Leu Leu Ser Pro Glu Asp Met Val Leu  
 450 455 460  
 Phe His Asn Leu Thr Gln Pro Arg Gly Val Asn Trp Cys Glu Arg Thr  
 465 470 475 480  
 Thr Leu Ser Asn Gly Gly Cys Gln Tyr Leu Cys Leu Pro Ala Pro Gln  
 485 490 495  
 Ile Asn Pro His Ser Pro Lys Phe Thr Cys Ala Cys Pro Asp Gly Met  
 500 505 510  
 Leu Leu Ala Arg Asp Met Arg Ser Cys Leu Thr Glu Gly Glu Ala Ala  
 515 520 525  
 Val Ala Thr Gln Glu Thr Ser Thr Val Arg Leu Lys Val Ser Ser Thr  
 530 535 540  
 Ala Val Arg Thr Gln His Thr Thr Thr Arg Pro Val Pro Asp Thr Ser  
 545 550 555 560  
 Arg Leu Pro Gly Ala Thr Pro Gly Leu Thr Thr Val Glu Ile Val Thr  
 565 570 575  
 Met Ser His Gln Ala Leu Gly Asp Val Ala Gly Arg Gly Asn Glu Lys  
 580 585 590  
 Lys Pro Ser Ser Val Arg Ala Leu Ser Ile Val Leu Pro Ile Val Leu  
 595 600 605  
 Leu Val Phe Leu Cys Leu Gly Val Phe Leu Leu Trp Lys Asn Trp Arg  
 610 615 620  
 Leu Lys Asn Ile Asn Ser Ile Asn Phe Asp Asn Pro Val Tyr Gln Lys  
 625 630 635 640  
 Thr Thr Glu Asp Glu Val His Ile Cys His Asn Gln Asp Gly Tyr Ser  
 645 650 655  
 Tyr Pro Ser Arg Gln Met Val Ser Leu Glu Asp Asp Val Ala  
 660 665 670

&lt;210&gt; 1128

&lt;211&gt; 383

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1128

Arg Ile Pro Gly Leu Gly Pro Pro Gly Ser Pro Pro Pro Pro Pro His  
 1 5 10 15  
 Val Arg Gly Met Pro Gly Cys Pro Cys Pro Gly Cys Gly Met Ala Gly  
 20 25 30  
 Pro Arg Leu Leu Phe Leu Thr Ala Leu Ala Leu Glu Leu Leu Gly Arg  
 35 40 45  
 Ala Gly Gly Ser Gln Pro Ala Leu Arg Ser Arg Gly Thr Ala Thr Ala  
 50 55 60  
 Cys Arg Leu Asp Asn Lys Glu Ser Glu Ser Trp Gly Ala Leu Leu Ser  
 65 70 75 80  
 Gly Glu Arg Leu Asp Thr Trp Ile Cys Ser Leu Leu Gly Ser Leu Met  
 85 90 95  
 Val Gly Leu Ser Gly Val Phe Pro Leu Leu Val Ile Pro Leu Glu Met  
 100 105 110  
 Gly Thr Met Leu Arg Ser Glu Ala Gly Ala Trp Arg Leu Lys Gln Leu  
 115 120 125  
 Leu Ser Phe Ala Leu Gly Gly Leu Leu Gly Asn Val Phe Leu His Leu  
 130 135 140

Leu Pro Glu Ala Trp Ala Tyr Thr Cys Ser Ala Ser Pro Gly Gly Glu  
 145 150 155 160  
 Gly Gln Ser Leu Gln Gln Gln Gln Leu Gly Leu Trp Val Ile Ala  
 165 170 175  
 Gly Ile Leu Thr Phe Leu Ala Leu Glu Lys Met Phe Leu Asp Ser Lys  
 180 185 190  
 Glu Glu Gly Thr Ser Gln Ala Pro Asn Lys Asp Pro Thr Ala Ala Ala  
 195 200 205  
 Ala Ala Leu Asn Gly Gly His Cys Leu Ala Gln Pro Ala Ala Glu Pro  
 210 215 220  
 Gly Leu Gly Ala Val Val Arg Ser Ile Lys Val Ser Gly Tyr Leu Asn  
 225 230 235 240  
 Leu Leu Ala Asn Thr Ile Asp Asn Phe Thr His Gly Leu Ala Val Ala  
 245 250 255  
 Ala Ser Phe Leu Val Ser Lys Lys Ile Gly Leu Leu Thr Thr Met Ala  
 260 265 270  
 Ile Leu Leu His Glu Ile Pro His Glu Val Gly Asp Phe Ala Ile Leu  
 275 280 285  
 Leu Arg Ala Gly Phe Asp Arg Trp Ser Ala Ala Lys Leu Gln Leu Ser  
 290 295 300  
 Thr Ala Leu Gly Gly Leu Leu Gly Ala Gly Phe Ala Ile Cys Thr Gln  
 305 310 315 320  
 Ser Pro Lys Gly Val Glu Glu Thr Ala Ala Trp Val Leu Pro Phe Thr  
 325 330 335  
 Ser Gly Gly Phe Leu Tyr Ile Ala Leu Val Asn Val Leu Pro Asp Leu  
 340 345 350  
 Leu Glu Glu Glu Asp Pro Trp Arg Ser Leu Gln Gln Leu Leu Leu  
 355 360 365  
 Cys Ala Gly Ile Val Val Met Val Leu Phe Ser Leu Phe Val Asp  
 370 375 380 383

&lt;210&gt; 1129

&lt;211&gt; 174

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1129

Gly Lys Val Ser Ala Gly Gln Ala Gly Ala Asp Arg Thr Leu Arg Arg  
 1 5 10 15  
 Ala Pro Glu Pro Arg Phe Ser Gln Glu Pro Thr Gly Asn Ser Ala Tyr  
 20 25 30  
 Pro Gln Leu Arg Pro Phe Leu Asp Pro Gln Gly Arg Asp Leu Lys Pro  
 35 40 45  
 Ser Ala Leu Val Pro Pro Thr Arg Ser His Thr Gly Arg Arg Pro Trp  
 50 55 60  
 Leu His Thr Gln Pro Leu Pro Gly Pro Gln Gly Arg Ala Trp Gly Pro  
 65 70 75 80  
 Thr Cys Thr Pro Ala Cys Val Asp Arg Val Leu Glu Ser Glu Glu Gly  
 85 90 95  
 Arg Arg Glu Tyr Leu Ala Phe Pro Thr Ser Lys Ser Ser Gly Gln Lys  
 100 105 110  
 Gly Arg Lys Glu Leu Leu Lys Gly Asn Gly Arg Arg Ile Asp Tyr Met  
 115 120 125  
 Leu His Ala Glu Glu Gly Leu Cys Pro Asp Trp Lys Ala Glu Val Glu  
 130 135 140  
 Glu Phe Ser Phe Ile Thr Gln Leu Ser Gly Leu Thr Asp His Leu Pro  
 145 150 155 160  
 Val Ala Met Arg Leu Met Val Ser Ser Gly Glu Glu Glu Ala  
 165 170 174

<210> 1130  
 <211> 231  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1130  
 Pro Cys Gly Gly Ile Arg Leu Ser Ala Ser Glu Ala Ala Thr Leu Phe  
 1 5 10 15  
 Gly Tyr Leu Val Val Pro Ala Gly Gly Gly Thr Phe Leu Gly Gly  
 20 25 30  
 Phe Phe Val Asn Lys Leu Arg Leu Arg Gly Ser Ala Val Ile Lys Phe  
 35 40 45  
 Cys Leu Phe Cys Thr Val Val Ser Leu Leu Gly Ile Leu Val Phe Ser  
 50 55 60  
 Leu His Cys Pro Ser Val Pro Met Ala Gly Val Thr Ala Ser Tyr Gly  
 65 70 75 80  
 Gly Ser Leu Leu Pro Glu Gly His Leu Asn Leu Thr Ala Pro Cys Asn  
 85 90 95  
 Ala Ala Cys Ser Cys Gln Pro Glu His Tyr Ser Pro Val Cys Gly Ser  
 100 105 110  
 Asp Gly Leu Met Tyr Phe Ser Leu Cys His Ala Gly Cys Pro Ala Ala  
 115 120 125  
 Thr Glu Thr Asn Val Asp Gly Gln Lys Val Ser Gly Ala Ala Ala Tyr  
 130 135 140  
 Arg Pro Cys Pro Pro Leu Asp Pro Gly Lys Gly Pro Pro Cys Leu Pro  
 145 150 155 160  
 Leu Val Ile Gly Ala Ile Val Gly Leu Pro Arg Cys Thr Glu Thr Val  
 165 170 175  
 Ala Val Ser Leu Arg Ile Phe Pro Leu Val Leu Ala Met His Cys Arg  
 180 185 190  
 Glu Met His Phe Asn Leu Ser Glu Lys Ala Pro Pro Ser Gly Phe His  
 195 200 205  
 Ile Arg Cys Asn Phe Leu Tyr Ile Pro Gln Gln His Ser Cys Thr Asn  
 210 215 220  
 Gly Asn Ser Thr Met Cys Pro  
 225 230 231

<210> 1131  
 <211> 234  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1131  
 Leu Leu Arg Lys Val Gly Ala Pro Gly Gly Ala Arg Gly Val Ile Arg  
 1 5 10 15  
 Leu Leu Asp Trp Phe Glu Arg Pro Asp Gly Phe Leu Leu Val Leu Glu  
 20 25 30  
 Arg Pro Glu Pro Ala Gln Asp Leu Phe Asp Phe Ile Thr Glu Arg Gly  
 35 40 45  
 Ala Leu Asp Glu Pro Leu Ala Arg Arg Phe Phe Ala Gln Val Leu Ala  
 50 55 60  
 Ala Val Arg His Cys His Ser Cys Gly Val Val His Arg Asp Ile Lys  
 65 70 75 80

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Asp Glu Asn Leu Leu Val Asp Leu Arg Ser Gly Glu Leu Lys Leu Ile
      85                      90                      95
Asp Phe Gly Ser Gly Ala Leu Leu Lys Asp Thr Val Tyr Thr Asp Phe
      100                    105                    110
Asp Gly Thr Arg Val Tyr Ser Pro Pro Glu Trp Ile Arg Tyr His Arg
      115                    120                    125
Tyr His Gly Arg Ser Ala Thr Val Trp Ser Leu Gly Val Leu Leu Tyr
      130                    135                    140
Asp Met Val Cys Gly Asp Ile Pro Phe Glu Gln Asp Glu Glu Ile Leu
      145                    150                    155                    160
Arg Gly Arg Leu Leu Phe Arg Arg Arg Val Ser Pro Glu Cys Gln Gln
      165                    170                    175
Leu Ile Arg Trp Cys Leu Ser Leu Arg Pro Ser Glu Arg Pro Ser Leu
      180                    185                    190
Asp Gln Ile Ala Ala His Pro Trp Met Leu Gly Ala Asp Gly Gly Ala
      195                    200                    205
Pro Glu Ser Cys Asp Leu Arg Leu Cys Thr Leu Asp Pro Asp Asp Val
      210                    215                    220
Ala Ser Thr Thr Ser Ser Ser Glu Ser Leu
      225                    230                    234

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<210> 1132
<211> 270
<212> Amino acid
<213> Homo sapiens

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<400> 1132
Gly Lys Asn Ser Gln Lys Ala Ser Pro Val Asp Asp Glu Gln Leu Ser
 1      5      10      15
Val Cys Leu Ser Gly Phe Leu Asp Glu Val Met Lys Lys Tyr Gly Ser
      20      25      30
Leu Val Pro Leu Ser Glu Lys Glu Val Leu Gly Arg Leu Lys Asp Val
      35      40      45
Phe Asn Glu Asp Phe Ser Asn Arg Lys Pro Phe Ile Asn Arg Glu Ile
      50      55      60
Thr Asn Tyr Arg Ala Arg His Gln Lys Cys Asn Phe Arg Ile Phe Tyr
      65      70      75      80
Asn Lys His Met Leu Asp Met Asp Asp Leu Ala Thr Leu Asp Gly Gln
      85      90      95
Asn Trp Leu Asn Asp Gln Val Ile Asn Met Tyr Gly Glu Leu Ile Met
      100     105     110
Asp Ala Val Pro Asp Lys Val His Phe Phe Asn Ser Phe Phe His Arg
      115     120     125
Gln Leu Val Thr Lys Gly Tyr Asn Gly Val Lys Arg Trp Thr Lys Lys
      130     135     140
Val Asp Leu Phe Lys Lys Ser Leu Leu Leu Ile Pro Ile His Leu Glu
      145     150     155     160
Val His Trp Ser Leu Ile Thr Val Thr Leu Ser Asn Arg Ile Ile Ser
      165     170     175
Phe Tyr Asp Ser Gln Gly Ile His Phe Lys Phe Cys Val Glu Asn Ile
      180     185     190
Arg Lys Tyr Leu Leu Thr Glu Ala Arg Glu Lys Asn Arg Leu Asn Leu
      195     200     205
Gln Gly Trp Gln Thr Ala Val Thr Lys Cys Ile Pro Gln Gln Lys Asn
      210     215     220
Asp Ser Asp Cys Gly Val Phe Val Leu Gln Tyr Cys Lys Cys Leu Ala
      225     230     235     240
Leu Lys Gln Pro Phe Gln Phe Ser Gln Glu Asp Met Pro Arg Val Arg
      245     250     255

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Lys Arg Ile Tyr Lys Glu Leu Cys Glu Cys Arg Leu Met Asp  
                   260                  265                  270

<210> 1133  
 <211> 204  
 <212> Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(204)  
 <223> X = any amino acid or stop code

<400> 1133  
 Pro Pro Gly Gly Xaa Gln Gly Ser Ala Ala Lys His Arg Phe Pro Lys  
   1                  5                  10                  15  
 Gly Tyr Arg His Pro Ala Leu Glu Ala Arg Leu Gly Arg Arg Arg Thr  
                   20                  25                  30  
 Val Gln Glu Ala Arg Ala Leu Leu Arg Cys Arg Arg Ala Gly Ile Ser  
                   35                  40                  45  
 Ala Pro Val Val Phe Phe Val Asp Tyr Ala Ser Asn Cys Leu Tyr Met  
                   50                  55                  60  
 Glu Glu Ile Glu Gly Ser Val Thr Val Arg Asp Tyr Ile Gln Ser Thr  
                   65                  70                  75                  80  
 Met Glu Thr Glu Lys Thr Pro Gln Gly Leu Ser Asn Leu Ala Lys Thr  
                   85                  90                  95  
 Ile Gly Gln Val Leu Ala Arg Met His Asp Glu Asp Leu Ile His Gly  
                   100                  105                  110  
 Asp Leu Thr Thr Ser Asn Met Leu Leu Lys Pro Pro Leu Glu Gln Leu  
                   115                  120                  125  
 Asn Ile Val Leu Ile Asp Phe Gly Leu Ser Phe Ile Ser Ala Leu Pro  
                   130                  135                  140  
 Glu Asp Lys Gly Val Asp Leu Tyr Val Leu Glu Lys Ala Phe Leu Ser  
                   145                  150                  155                  160  
 Thr His Pro Asn Thr Glu Thr Val Phe Glu Ala Phe Leu Lys Ser Tyr  
                   165                  170                  175  
 Ser Thr Ser Ser Lys Lys Ala Arg Pro Val Leu Lys Lys Leu Asp Glu  
                   180                  185                  190  
 Val Arg Leu Arg Gly Lys Lys Arg Ser Met Val Gly  
                   195                  200                  204

<210> 1134  
 <211> 531  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1134  
 Arg Ala Cys Val Phe Arg Pro Glu Asp Met Met Gln Gly Glu Ala His  
   1                  5                  10                  15  
 Pro Ser Ala Ser Leu Ile Asp Arg Thr Ile Lys Met Arg Lys Glu Thr  
                   20                  25                  30  
 Glu Ala Arg Lys Val Val Leu Ala Trp Gly Leu Leu Asn Val Ser Met  
                   35                  40                  45  
 Ala Gly Met Ile Tyr Thr Glu Met Thr Gly Lys Leu Ile Ser Ser Tyr

50	55	60
Tyr Asn Val Thr Tyr Trp Pro Leu Trp Tyr Ile Glu Leu Ala Leu Ala		
65	70	75
Ser Leu Phe Ser Leu Asn Ala Leu Phe Asp Phe Trp Arg Tyr Phe Lys		80
	85	90
Tyr Thr Val Ala Pro Thr Ser Leu Val Val Ser Pro Gly Gln Gln Thr		95
100	105	110
Leu Leu Gly Leu Lys Thr Ala Val Val Gln Thr Thr Pro Pro His Asp		
115	120	125
Leu Ala Ala Thr Gln Ile Pro Pro Ala Pro Pro Ser Pro Ser Ile Gln		
130	135	140
Gly Gln Ser Val Leu Ser Tyr Ser Pro Ser Arg Ser Pro Ser Thr Ser		
145	150	155
Pro Lys Phe Thr Thr Ser Cys Met Thr Gly Tyr Ser Pro Gln Leu Gln		160
	165	170
Gly Leu Ser Ser Gly Gly Ser Gly Ser Tyr Ser Pro Gly Val Thr Tyr		175
180	185	190
Ser Pro Val Ser Gly Tyr Asn Lys Leu Ala Ser Phe Ser Pro Ser Pro		
195	200	205
Pro Ser Pro Tyr Pro Thr Thr Val Gly Pro Val Glu Ser Ser Gly Leu		
210	215	220
Arg Ser Arg Tyr Arg Ser Ser Pro Thr Val Tyr Asn Ser Pro Thr Asp		
225	230	235
Lys Glu Asp Tyr Met Thr Asp Leu Arg Thr Leu Asp Thr Phe Leu Arg		240
	245	250
Ser Glu Glu Glu Lys Gln His Arg Val Lys Leu Gly Ser Pro Asp Ser		255
260	265	270
Thr Ser Pro Ser Ser Ser Pro Thr Phe Trp Asn Tyr Ser Arg Ser Met		
275	280	285
Gly Asp Tyr Ala Gln Thr Leu Lys Lys Phe Gln Tyr Gln Leu Ala Cys		
290	295	300
Arg Ser Gln Ala Pro Cys Ala Asn Lys Asp Glu Ala Asp Leu Ser Ser		
305	310	315
Lys Gln Ala Ala Glu Val Trp Ala Arg Val Ala Met Asn Arg Gln		320
	325	330
Leu Leu Asp His Met Asp Ser Trp Thr Ala Lys Phe Arg Asn Trp Ile		335
340	345	350
Asn Glu Thr Ile Leu Val Pro Leu Val Gln Glu Ile Glu Ser Val Ser		
355	360	365
Thr Gln Met Arg Arg Met Gly Cys Pro Glu Leu Gln Ile Gly Glu Ala		
370	375	380
Ser Ile Thr Ser Leu Lys Gln Ala Ala Leu Val Lys Ala Pro Leu Ile		385
385	390	395
Pro Thr Leu Asn Thr Ile Val Gln Tyr Leu Asp Leu Thr Pro Asn Gln		400
	405	410
Glu Tyr Leu Phe Glu Arg Ile Lys Glu Leu Ser Gln Gly Gly Cys Met		415
420	425	430
Ser Ser Phe Arg Trp Asn Arg Gly Gly Asp Phe Lys Gly Arg Lys Trp		
435	440	445
Asp Thr Asp Leu Pro Thr Asp Ser Ala Ile Ile Met His Val Phe Cys		
450	455	460
Thr Tyr Leu Asp Ser Arg Leu Pro Pro His Pro Lys Tyr Pro Asp Gly		465
465	470	475
Lys Thr Phe Thr Ser Gln His Phe Val Gln Thr Pro Asn Lys Pro Asp		480
	485	490
Val Thr Asn Glu Asn Val Phe Cys Ile Tyr Gln Ser Ala Ile Asn Pro		495
500	505	510
Pro His Tyr Glu Leu Ile Tyr Gln Arg His Val Tyr Ile Pro Ala Lys		
515	520	525
Gly Gln Lys		
530 531		

&lt;210&gt; 1135



<211> 508  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1135  
 Ser Ser Ala Val Glu Phe Ile Asn Arg Asn Asn Ser Val Val Gln Val  
 1 5 10 15  
 Leu Leu Ala Ala Gly Ala Asp Pro Asn Leu Gly Asp Asp Phe Ser Ser  
 20 25 30  
 Val Tyr Lys Thr Ala Lys Glu Gln Gly Ile His Ser Leu Glu Val Leu  
 35 40 45  
 Ile Thr Arg Glu Asp Asp Phe Asn Asn Arg Leu Asn Asn Arg Ala Ser  
 50 55 60  
 Phe Lys Gly Cys Thr Ala Leu His Tyr Ala Val Leu Ala Asp Asp Tyr  
 65 70 75 80  
 Arg Thr Val Lys Glu Leu Leu Asp Gly Gly Ala Asn Pro Leu Gln Arg  
 85 90 95  
 Asn Glu Met Gly His Thr Pro Leu Asp Tyr Ala Arg Glu Gly Glu Val  
 100 105 110  
 Met Lys Leu Leu Arg Thr Ser Glu Ala Lys Tyr Gln Glu Lys Gln Arg  
 115 120 125  
 Lys Arg Glu Ala Glu Glu Arg Arg Phe Pro Leu Glu Gln Arg Leu  
 130 135 140  
 Lys Glu His Ile Ile Gly Gln Glu Ser Ala Ile Ala Thr Val Gly Ala  
 145 150 155 160  
 Ala Ile Arg Arg Lys Glu Asn Gly Trp Tyr Asp Glu Glu His Pro Leu  
 165 170 175  
 Val Phe Leu Phe Leu Gly Ser Ser Gly Ile Gly Lys Thr Glu Leu Ala  
 180 185 190  
 Lys Gln Thr Ala Lys Tyr Met His Lys Asp Ala Lys Lys Gly Phe Ile  
 195 200 205  
 Arg Leu Asp Met Ser Glu Phe Gln Glu Arg His Glu Val Ala Lys Phe  
 210 215 220  
 Ile Gly Ser Pro Pro Gly Tyr Val Gly His Glu Glu Gly Gly Gln Leu  
 225 230 235 240  
 Thr Lys Lys Leu Lys Gln Cys Pro Asn Ala Val Val Leu Phe Asp Glu  
 245 250 255  
 Val Asp Lys Ala His Pro Asp Val Leu Thr Ile Met Leu Gln Leu Phe  
 260 265 270  
 Asp Glu Gly Arg Leu Thr Asp Gly Lys Gly Lys Thr Ile Asp Cys Lys  
 275 280 285  
 Asp Ala Ile Phe Ile Met Thr Ser Asn Val Ala Ser Asp Glu Ile Ala  
 290 295 300  
 Gln His Ala Leu Gln Leu Arg Gln Glu Ala Leu Glu Met Ser Arg Asn  
 305 310 315 320  
 Arg Ile Ala Glu Asn Leu Gly Asp Val Gln Ile Ser Asp Lys Ile Thr  
 325 330 335  
 Ile Ser Lys Asn Phe Lys Glu Asn Val Ile Arg Pro Ile Leu Lys Ala  
 340 345 350  
 His Phe Arg Arg Asp Glu Phe Leu Gly Arg Ile Asn Glu Ile Val Tyr  
 355 360 365  
 Phe Leu Pro Phe Cys His Ser Glu Leu Ile Gln Leu Val Asn Lys Glu  
 370 375 380  
 Leu Asn Phe Trp Ala Lys Arg Ala Lys Gln Arg His Asn Ile Thr Leu  
 385 390 395 400  
 Leu Trp Asp Arg Glu Val Ala Asp Val Leu Val Asp Gly Tyr Asn Val  
 405 410 415  
 His Tyr Gly Ala Arg Ser Ile Lys His Glu Val Glu Arg Arg Val Gly  
 420 425 430  
 Asn Gln Leu Ala Ala Ala Tyr Glu Gln Asp Leu Leu Pro Gly Gly Cys

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      435              440              445
Thr Leu Arg Ile Thr Val Glu Asp Ser Asp Lys Gln Leu Leu Lys Ser
  450              455              460
Pro Glu Leu Pro Ser Pro Gln Ala Glu Lys Arg Leu Pro Lys Leu Arg
465              470              475              480
Leu Glu Ile Ile Asp Lys Asp Ser Lys Thr Arg Arg Leu Asp Ile Arg
      485              490              495
Ala Pro Leu His Pro Glu Lys Val Cys Asn Thr Ile
      500              505              508

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<210> 1136  
 <211> 81  
 <212>Amino acid  
 <213> Homo sapiens

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      <400> 1136
Ser Ser Cys Asp Arg Glu Arg His Gly Ser Leu Gly Met Met Ser Gly
  1              5              10              15
Ser Phe Ile Leu Cys Leu Ala Leu Val Thr Arg Trp Ser Pro Gln Ala
      20              25              30
Ser Ser Val Pro Leu Ala Val Tyr Glu Ser Lys Thr Arg Lys Ser Tyr
      35              40              45
Arg Ser Gln Arg Asp Arg Asp Gly Lys Asp Arg Ser Gln Gly Met Gly
      50              55              60
Leu Ser Leu Leu Val Glu Thr Arg Lys Leu Leu Leu Ser Ala Asn Gln
      65              70              75              80
Gly
      81

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<210> 1137  
 <211> 260  
 <212>Amino acid  
 <213> Homo sapiens

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      <400> 1137
His Thr Pro Met Ala Phe Phe Leu Ser Phe Leu Ser Thr Ser Glu Thr
  1              5              10              15
Val Tyr Thr Phe Val Ile Leu Pro Lys Met Leu Ile Asn Leu Leu Ser
      20              25              30
Val Ala Arg Thr Ile Ser Phe Asn Cys Cys Ala Leu Gln Met Phe Phe
      35              40              45
Phe Leu Gly Phe Ala Ile Thr Asn Cys Leu Leu Leu Gly Val Met Gly
      50              55              60
Tyr Asp Arg Tyr Ala Ala Ile Cys His Pro Leu His Tyr Pro Thr Leu
      65              70              75              80
Met Ser Trp Gln Val Cys Gly Lys Leu Ala Ala Ala Cys Ala Ile Gly
      85              90              95
Gly Phe Leu Ala Ser Leu Thr Val Val Asn Leu Val Phe Ser Leu Pro
      100              105              110
Phe Cys Ser Thr Asn Lys Val Asn His Tyr Phe Cys Asp Ile Ser Ala
      115              120              125
Val Ile Leu Leu Ala Cys Thr Asn Thr Asp Val Asn Gly Phe Val Ile
      130              135              140
Phe Ile Cys Gly Val Leu Val Leu Val Val Pro Phe Leu Phe Ile Cys

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145          150          155          160
Val Ser Tyr Phe Cys Ile Leu Arg Thr Ile Leu Lys Ile Pro Ser Ala
          165          170          175
Glu Gly Arg Arg Lys Ala Phe Ser Thr Cys Ala Ser His Leu Ser Val
          180          185          190
Val Ile Val His Tyr Gly Cys Ala Ser Phe Ile Tyr Leu Arg Pro Thr
          195          200          205
Ala Asn Tyr Val Ser Asn Lys Asp Arg Leu Val Thr Val Thr Tyr Thr
          210          215          220
Ile Val Thr Pro Leu Leu Asn Pro Met Val Tyr Ser Leu Arg Asn Lys
225          230          235          240
Asp Val Gln Leu Ala Ile Arg Lys Val Leu Gly Lys Lys Gly Ser Leu
          245          250          255
Lys Leu Tyr Asn
          260

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<210> 1138
<211> 393
<212>Amino acid
<213> Homo sapiens

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<400> 1138
Arg Pro Pro Ala Ala Thr Arg Tyr Pro Arg Glu Lys Leu Lys Ser Met
1          5          10          15
Thr Ser Arg Asp Asn Tyr Lys Ala Gly Ser Arg Glu Ala Ala Ala Ala
          20          25          30
Ala Ala Ala Ala Val Ala Ala Ala Ala Ala Ala Ala Ala Ala Glu
          35          40          45
Pro Tyr Pro Val Ser Gly Ala Lys Arg Lys Tyr Leu Glu Asp Ser Asp
          50          55          60
Pro Glu Arg Ser Asp Tyr Glu Glu Gln Gln Leu Gln Glu Glu Glu Glu
          65          70          75          80
Ala Arg Lys Val Lys Ser Gly Ile Arg Gln Met Arg Leu Phe Ser Gln
          85          90          95
Asp Glu Cys Ala Lys Ile Glu Ala Arg Ile Asp Glu Val Val Ser Arg
          100          105          110
Ala Glu Lys Gly Leu Tyr Asn Glu His Thr Val Asp Arg Ala Pro Leu
          115          120          125
Arg Asn Lys Tyr Phe Phe Gly Glu Gly Tyr Thr Tyr Gly Ala Gln Leu
          130          135          140
Gln Lys Arg Gly Pro Gly Gln Glu Arg Leu Tyr Pro Pro Gly Asp Val
145          150          155          160
Asp Glu Ile Pro Glu Trp Val His Gln Leu Val Ile Gln Lys Leu Val
          165          170          175
Glu His Arg Val Ile Pro Glu Gly Phe Val Asn Ser Ala Val Ile Asn
          180          185          190
Asp Tyr Gln Pro Gly Gly Cys Ile Val Ser His Val Asp Pro Ile His
          195          200          205
Ile Phe Glu Arg Pro Ile Val Ser Val Ser Phe Phe Ser Asp Ser Ala
          210          215          220
Leu Cys Phe Gly Cys Lys Phe Gln Phe Lys Pro Ile Arg Val Ser Glu
225          230          235          240
Pro Val Leu Ser Leu Pro Val Arg Arg Gly Ser Val Thr Val Leu Ser
          245          250          255
Gly Tyr Ala Ala Asp Glu Ile Thr His Cys Ile Arg Pro Gln Asp Ile
          260          265          270
Lys Glu Arg Arg Ala Val Ile Ile Leu Arg Lys Thr Arg Leu Asp Ala
          275          280          285
Pro Arg Leu Glu Thr Lys Ser Leu Ser Ser Ser Val Leu Pro Pro Ser

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      290              295              300
Tyr Ala Ser Asp Arg Leu Ser Gly Asn Asn Arg Asp Pro Ala Leu Lys
305              310              315              320
Pro Lys Arg Ser His Arg Lys Ala Asp Pro Asp Ala Ala His Arg Pro
      325              330              335
Arg Ile Leu Glu Met Asp Lys Glu Glu Asn Arg Arg Ser Val Leu Leu
      340              345              350
Pro Thr His Arg Arg Arg Gly Ser Phe Ser Ser Glu Asn Tyr Trp Arg
      355              360              365
Lys Ser Tyr Glu Ser Ser Glu Asp Cys Ser Glu Ala Ala Gly Ser Pro
      370              375              380
Ala Arg Lys Val Lys Met Arg Arg His
385              390              393

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<210> 1139
<211> 545
<212>Amino acid
<213> Homo sapiens

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```

<400> 1139
Val Thr Trp His Phe Tyr Phe Cys Ser Asp His Lys Asn Gly His Tyr
 1              5              10              15
Ile Ile Pro Gln Met Ala Asp Arg Ser Arg Gln Lys Cys Met Ser Gln
      20              25              30
Ser Leu Asp Leu Ser Glu Leu Ala Lys Ala Ala Lys Lys Lys Leu Gln
      35              40              45
Ala Leu Ser Asn Arg Leu Phe Glu Glu Leu Ala Met Asp Val Tyr Asp
      50              55              60
Glu Val Asp Arg Arg Glu Asn Asp Ala Val Trp Leu Ala Thr Gln Asn
      65              70              75              80
His Ser Thr Leu Val Thr Glu Arg Ser Ala Val Pro Phe Leu Pro Val
      85              90              95
Asn Pro Glu Tyr Ser Ala Thr Arg Asn Gln Gly Arg Gln Lys Leu Ala
      100              105              110
Arg Phe Asn Ala Arg Glu Phe Ala Thr Leu Ile Ile Asp Ile Leu Ser
      115              120              125
Glu Ala Lys Arg Arg Gln Gln Gly Lys Ser Leu Ser Ser Pro Thr Asp
      130              135              140
Asn Leu Glu Leu Ser Leu Arg Ser Gln Ser Asp Leu Asp Asp Gln His
      145              150              155              160
Asp Tyr Asp Ser Val Ala Ser Asp Glu Asp Thr Asp Gln Glu Pro Leu
      165              170              175
Arg Ser Thr Gly Ala Thr Arg Ser Asn Arg Ala Arg Ser Met Asp Ser
      180              185              190
Ser Asp Leu Ser Asp Gly Ala Val Thr Leu Gln Glu Tyr Leu Glu Leu
      195              200              205
Lys Lys Ala Leu Ala Thr Ser Glu Ala Lys Val Gln Gln Leu Met Lys
      210              215              220
Val Asn Ser Ser Leu Ser Asp Glu Leu Arg Arg Leu Gln Arg Glu His
      225              230              235              240
Phe Ala Pro Ile Ile His Lys Leu Gln Ala Glu Asn Leu Gln Leu Arg
      245              250              255
Gln Pro Pro Gly Pro Val Pro Thr Pro Pro Leu Pro Ser Glu Arg Ala
      260              265              270
Glu His Thr Pro Met Ala Pro Gly Gly Ser Thr His Arg Arg Asp Arg
      275              280              285
Gln Ala Phe Ser Met Tyr Glu Pro Gly Ser Ala Leu Lys Pro Phe Gly
      290              295              300
Gly Pro Pro Gly Asp Glu Leu Thr Thr Arg Leu Gln Pro Phe His Ser

```

```

305          310          315          320
Thr Glu Leu Glu Asp Asp Ala Ile Tyr Ser Val His Val Pro Ala Gly
          325          330          335
Leu Tyr Arg Ile Arg Lys Gly Val Ser Ala Ser Ala Val Pro Phe Thr
          340          345          350
Pro Ser Ser Pro Leu Leu Ser Cys Ser Gln Glu Gly Ser Arg His Thr
          355          360          365
Ser Lys Leu Ser Arg His Gly Ser Gly Ala Asp Ser Asp Tyr Glu Asn
          370          375          380
Thr Gln Ser Gly Asp Pro Leu Leu Gly Leu Glu Gly Lys Arg Phe Leu
385          390          395          400
Glu Leu Gly Lys Glu Glu Asp Phe His Pro Glu Leu Glu Ser Leu Asp
          405          410          415
Gly Asp Leu Asp Pro Gly Leu Pro Ser Thr Glu Asp Val Ile Leu Lys
          420          425          430
Thr Glu Gln Val Thr Lys Asn Ile Gln Glu Leu Leu Arg Ala Ala Gln
          435          440          445
Glu Phe Lys His Asp Ser Phe Val Pro Cys Ser Glu Lys Ile His Leu
450          455          460
Ala Val Thr Glu Met Ala Ser Leu Phe Pro Lys Arg Pro Ala Leu Glu
465          470          475          480
Pro Val Arg Ser Ser Leu Arg Leu Leu Asn Ala Ser Ala Tyr Arg Leu
          485          490          495
Gln Ser Glu Cys Arg Lys Thr Val Pro Pro Glu Pro Gly Ala Pro Val
          500          505          510
Asp Phe Gln Leu Leu Thr Gln Gln Val Ile Gln Cys Ala Tyr Asp Ile
          515          520          525
Ala Lys Ala Ala Lys Gln Leu Val Thr Ile Thr Thr Arg Glu Lys Lys
          530          535          540
Gln
545

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<210> 1140
<211> 621
<212>Amino acid
<213> Homo sapiens

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```

<400> 1140
Arg Tyr Leu Ser Tyr Gly Ser Gly Pro Lys Arg Phe Pro Leu Val Asp
 1          5          10          15
Val Leu Gln Tyr Ala Leu Glu Phe Ala Ser Ser Lys Pro Val Cys Thr
          20          25          30
Ser Pro Val Asp Asp Ile Asp Ala Ser Ser Pro Pro Ser Gly Ser Ile
          35          40          45
Pro Ser Gln Thr Leu Pro Ser Thr Thr Glu Gln Gln Gly Ala Leu Ser
          50          55          60
Ser Glu Leu Pro Ser Thr Ser Pro Ser Ser Val Ala Ala Ile Ser Ser
65          70          75          80
Arg Ser Val Ile His Lys Pro Phe Thr Gln Ser Arg Ile Pro Pro Asp
          85          90          95
Leu Pro Met His Pro Ala Pro Arg His Ile Thr Glu Glu Glu Leu Ser
          100          105          110
Val Leu Glu Ser Cys Leu His Arg Trp Arg Thr Glu Ile Glu Asn Asp
          115          120          125
Thr Arg Asp Leu Gln Glu Ser Ile Ser Arg Ile His Arg Thr Ile Glu
          130          135          140
Leu Met Tyr Ser Asp Lys Ser Met Ile Gln Val Pro Tyr Arg Leu His
145          150          155          160
Ala Val Leu Val His Glu Gly Gln Ala Asn Ala Gly His Tyr Trp Ala

```

					165					170					175	
Tyr	Ile	Phe	Asp	His	Arg	Glu	Ser	Arg	Trp	Met	Lys	Tyr	Asn	Asp	Ile	
			180					185					190			
Ala	Val	Thr	Lys	Ser	Ser	Trp	Glu	Glu	Leu	Val	Arg	Asp	Ser	Phe	Gly	
			195				200					205				
Gly	Tyr	Arg	Asn	Ala	Ser	Ala	Tyr	Cys	Leu	Met	Tyr	Ile	Asn	Asp	Lys	
			210			215					220					
Ala	Gln	Phe	Leu	Ile	Gln	Glu	Glu	Phe	Asn	Lys	Glu	Thr	Gly	Gln	Pro	
225					230					235					240	
Leu	Val	Gly	Ile	Glu	Thr	Leu	Pro	Pro	Asp	Leu	Arg	Asp	Phe	Val	Gly	
				245					250						255	
Glu	Asp	Asn	Gln	Arg	Phe	Glu	Lys	Glu	Leu	Glu	Glu	Trp	Asp	Ala	Gln	
			260					265					270			
Leu	Ala	Gln	Lys	Ala	Leu	Gln	Glu	Lys	Leu	Leu	Ala	Ser	Gln	Lys	Leu	
			275				280					285				
Arg	Glu	Ser	Glu	Thr	Ser	Val	Thr	Thr	Ala	Gln	Ala	Ala	Gly	Asp	Pro	
			290			295					300					
Lys	Tyr	Leu	Glu	Gln	Pro	Ser	Arg	Ser	Asp	Phe	Ser	Lys	His	Leu	Lys	
305					310					315					320	
Glu	Glu	Thr	Ile	Gln	Ile	Ile	Thr	Lys	Ala	Ser	His	Glu	His	Glu	Asp	
				325					330						335	
Lys	Ser	Pro	Glu	Thr	Val	Leu	Gln	Ser	Ala	Ile	Lys	Leu	Glu	Tyr	Ala	
			340					345				350				
Arg	Leu	Val	Lys	Leu	Ala	Gln	Glu	Asp	Thr	Pro	Pro	Glu	Thr	Asp	Tyr	
			355				360					365				
Arg	Leu	His	His	Val	Val	Val	Tyr	Phe	Ile	Gln	Asn	Gln	Ala	Pro	Lys	
			370			375					380					
Lys	Ile	Ile	Glu	Lys	Thr	Leu	Leu	Glu	Gln	Phe	Gly	Asp	Arg	Asn	Leu	
385					390					395					400	
Ser	Phe	Asp	Glu	Arg	Cys	His	Asn	Ile	Met	Lys	Val	Ala	Gln	Ala	Lys	
			405					410				415				
Leu	Glu	Met	Ile	Lys	Pro	Glu	Glu	Val	Asn	Leu	Glu	Glu	Tyr	Glu	Glu	
			420					425				430				
Trp	His	Gln	Asp	Tyr	Arg	Lys	Phe	Arg	Glu	Thr	Thr	Met	Tyr	Leu	Ile	
			435				440					445				
Ile	Gly	Leu	Glu	Asn	Phe	Gln	Arg	Glu	Ser	Tyr	Ile	Asp	Ser	Leu	Leu	
			450			455					460					
Phe	Leu	Ile	Cys	Ala	Tyr	Gln	Asn	Asn	Lys	Glu	Leu	Leu	Ser	Lys	Gly	
465					470					475					480	
Leu	Tyr	Arg	Gly	His	Asp	Glu	Glu	Leu	Ile	Ser	His	Tyr	Arg	Arg	Glu	
			485					490				495				
Cys	Leu	Leu	Lys	Leu	Asn	Glu	Gln	Ala	Ala	Glu	Leu	Phe	Glu	Ser	Gly	
			500													

```
<210> 1141
<211> 154
<212> Amino acid
<213> Homo sapiens
```

<400> 1141  
 Ala Gln Val Tyr Val Arg Met Asp Ser Phe Asp Glu Asp Leu Ala Arg  
 1 5 10 15  
 Pro Ser Gly Leu Leu Ala Gln Glu Arg Lys Leu Cys Arg Asp Leu Val  
 20 25 30  
 His Ser Asn Lys Lys Glu Gln Glu Phe Arg Ser Ile Phe Gln His Ile  
 35 40 45  
 Gln Ser Ala Gln Ser Gln Arg Ser Pro Ser Glu Leu Phe Ala Gln His  
 50 55 60  
 Met Val Pro Ile Val His His Val Lys Glu His His Phe Gly Ser Ser  
 65 70 75 80  
 Gly Met Thr Leu His Glu Arg Phe Thr Lys Tyr Leu Lys Arg Gly Thr  
 85 90 95  
 Glu Gln Glu Ala Lys Asn Lys Lys Ser Pro Glu Ile His Arg Arg  
 100 105 110  
 Ile Asp Ile Ser Pro Ser Thr Phe Arg Lys His Gly Leu Ala His Asp  
 115 120 125  
 Glu Met Lys Ser Pro Arg Glu Pro Gly Tyr Lys Asp Gly His Asn Ser  
 130 135 140  
 Lys Asn Glu Leu Gln Arg Val Asn Phe Tyr  
 145 150 154

<210> 1142  
 <211> 121  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1142  
 Thr Tyr Thr Phe Cys Phe Ser Leu Met Ile Ile Leu Leu Thr Ile Ile  
 1 5 10 15  
 Gln Gly Leu Ile Leu Glu Ala Phe Gly Glu Leu Arg Asp Gln Leu Asp  
 20 25 30  
 Gln Val Lys Glu Asp Met Glu Thr Lys Cys Phe Ile Cys Gly Ile Gly  
 35 40 45  
 Asn Asp Tyr Phe Asp Thr Val Pro His Gly Phe Glu Thr His Thr Leu  
 50 55 60  
 Gln Glu His Asn Leu Ala Asn Tyr Leu Phe Phe Leu Met Tyr Leu Ile  
 65 70 75 80  
 Asn Lys Asp Glu Thr Glu His Thr Gly Gln Glu Ser Tyr Val Trp Lys  
 85 90 95  
 Met Tyr Gln Glu Arg Cys Trp Glu Phe Phe Pro Ala Gly Asp Cys Phe  
 100 105 110  
 Arg Lys Gln Tyr Glu Asp Gln Leu Asn  
 115 120 121

<210> 1143  
 <211> 851  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1143

Phe	Arg	Arg	Lys	Gly	Gly	Gly	Gly	Pro	Lys	Asp	Phe	Gly	Ala	Gly	Leu	1	5	10	15
Lys	Tyr	Asn	Ser	Arg	His	Glu	Lys	Val	Asn	Gly	Leu	Glu	Glu	Gly	Val	20	25	30	
Glu	Phe	Leu	Pro	Val	Asn	Asn	Val	Lys	Lys	Val	Glu	Lys	His	Gly	Pro	35	40	45	
Gly	Arg	Trp	Val	Val	Leu	Ala	Val	Leu	Ile	Gly	Leu	Leu	Leu	Val		50	55	60	
Leu	Leu	Gly	Ile	Gly	Phe	Leu	Val	Trp	His	Leu	Gln	Tyr	Arg	Asp	Val	65	70	75	80
Arg	Val	Gln	Lys	Val	Phe	Asn	Gly	Tyr	Met	Arg	Ile	Thr	Asn	Glu	Asn	85	90	95	
Phe	Val	Asp	Ala	Tyr	Glu	Asn	Ser	Asn	Ser	Thr	Glu	Phe	Val	Ser	Leu	100	105	110	
Ala	Ser	Lys	Val	Lys	Asp	Ala	Leu	Lys	Leu	Leu	Tyr	Ser	Gly	Val	Pro	115	120	125	
Phe	Leu	Gly	Pro	Tyr	His	Lys	Glu	Ser	Ala	Val	Thr	Ala	Phe	Ser	Glu	130	135	140	
Gly	Ser	Val	Ile	Ala	Tyr	Tyr	Trp	Ser	Glu	Phe	Ser	Ile	Pro	Gln	His	145	150	155	160
Leu	Val	Glu	Glu	Ala	Glu	Arg	Val	Met	Ala	Glu	Glu	Arg	Val	Val	Met	165	170	175	
Leu	Pro	Pro	Arg	Ala	Arg	Ser	Leu	Lys	Ser	Phe	Val	Val	Thr	Ser	Val	180	185	190	
Val	Ala	Phe	Pro	Thr	Asp	Ser	Lys	Thr	Val	Gln	Arg	Thr	Gln	Asp	Asn	195	200	205	
Ser	Cys	Ser	Phe	Gly	Leu	His	Ala	Arg	Gly	Val	Glu	Leu	Met	Arg	Phe	210	215	220	
Thr	Thr	Pro	Gly	Phe	Pro	Asp	Ser	Pro	Tyr	Pro	Ala	His	Ala	Arg	Cys	225	230	235	240
Gln	Trp	Ala	Leu	Arg	Gly	Asp	Ala	Asp	Ser	Val	Leu	Ser	Leu	Thr	Phe	245	250	255	
Arg	Ser	Phe	Asp	Leu	Ala	Ser	Cys	Asp	Glu	Arg	Gly	Arg	His	Leu	Val	260	265	270	
Thr	Val	Tyr	Asn	Thr	Leu	Ser	Pro	Met	Glu	Pro	His	Ala	Leu	Val	Gln	275	280	285	
Leu	Cys	Gly	Thr	Tyr	Pro	Pro	Ser	Tyr	Asn	Leu	Thr	Phe	His	Ser	Ser	290	295	300	
Gln	Asn	Val	Leu	Leu	Ile	Thr	Leu	Ile	Thr	Asn	Thr	Glu	Arg	Arg	His	305	310	315	320
Pro	Gly	Phe	Glu	Ala	Thr	Phe	Phe	Gln	Leu	Pro	Arg	Met	Ser	Ser	Cys	325	330	335	
Gly	Gly	Arg	Leu	Arg	Lys	Ala	Gln	Gly	Thr	Phe	Asn	Ser	Pro	Tyr	Tyr	340	345	350	
Pro	Gly	His	Tyr	Pro	Pro	Asn	Ile	Asp	Cys	Thr	Trp	Asn	Ile	Glu	Val	355	360	365	
Pro	Asn	Asn	Gln	His	Val	Lys	Val	Arg	Phe	Lys	Phe	Phe	Tyr	Leu	Leu	370	375	380	
Glu	Pro	Gly	Val	Pro	Ala	Gly	Thr	Cys	Pro	Lys	Asp	Tyr	Val	Glu	Ile	385	390	395	400
Asn	Gly	Glu	Lys	Tyr	Cys	Gly	Glu	Arg	Ser	Gln	Phe	Val	Val	Thr	Ser	405	410	415	
Asn	Ser	Asn	Lys	Ile	Thr	Val	Arg	Phe	His	Ser	Asp	Gln	Ser	Tyr	Thr	420	425	430	
Asp	Thr	Gly	Phe	Leu	Ala	Glu	Tyr	Leu	Ser	Tyr	Asp	Ser	Ser	Asp	Pro	435	440	445	
Cys	Pro	Gly	Gln	Phe	Thr	Cys	Arg	Thr	Gly	Arg	Cys	Ile	Arg	Lys	Glu	450	455	460	
Leu	Arg	Cys	Asp	Gly	Trp	Ala	Asp	Cys	Thr	Asp	His	Ser	Asp	Glu	Leu	465	470	475	480
Asn	Cys	Ser	Cys	Asp	Ala	Gly	His	Gln	Phe	Thr	Cys	Lys	Asn	Lys	Phe	485	490	495	
Cys	Lys	Pro	Leu	Phe	Trp	Val	Cys	Asp	Ser	Leu	Asn	Asp	Cys	Gly	Asp				



```

      500                      505                      510
Asn Ser Asp Glu Gln Gly Cys Ser Cys Pro Ala Gln Thr Phe Arg Cys
      515                      520                      525
Ser Asn Gly Lys Cys Leu Ser Lys Ser Gln Gln Cys Asn Gly Lys Asp
      530                      535                      540
Asp Cys Gly Asp Gly Ser Asp Glu Ala Ser Cys Pro Lys Val Asn Val
545                      550                      555                      560
Val Thr Cys Thr Lys His Thr Tyr Arg Cys Leu Asn Gly Leu Cys Leu
      565                      570                      575
Ser Lys Gly Asn Pro Glu Cys Asp Gly Lys Glu Asp Cys Ser Asp Gly
      580                      585                      590
Ser Asp Glu Lys Asp Cys Asp Cys Gly Leu Arg Ser Phe Thr Arg Gln
      595                      600                      605
Ala Arg Val Val Gly Gly Thr Asp Ala Asp Glu Gly Glu Trp Pro Trp
      610                      615                      620
Gln Val Ser Leu His Ala Leu Gly Gln Gly His Ile Cys Gly Ala Ser
625                      630                      635                      640
Leu Ile Ser Pro Asn Trp Leu Val Ser Ala Ala His Cys Tyr Ile Asp
      645                      650                      655
Asp Arg Gly Phe Arg Tyr Ser Asp Pro Thr Gln Trp Thr Ala Phe Leu
      660                      665                      670
Gly Leu His Asp Gln Ser Gln Arg Ser Ala Pro Gly Val Gln Glu Arg
      675                      680                      685
Arg Leu Lys Arg Ile Ile Ser His Pro Phe Phe Asn Asp Phe Thr Phe
      690                      695                      700
Asp Tyr Asp Ile Ala Leu Leu Glu Leu Glu Lys Pro Ala Glu Tyr Ser
705                      710                      715                      720
Ser Met Val Arg Pro Ile Cys Leu Pro Asp Ala Ser His Val Phe Pro
      725                      730                      735
Ala Gly Lys Ala Ile Trp Val Thr Gly Trp Gly His Thr Gln Tyr Gly
      740                      745                      750
Gly Thr Gly Ala Leu Ile Leu Gln Lys Gly Glu Ile Arg Val Ile Asn
      755                      760                      765
Gln Thr Thr Cys Glu Asn Leu Leu Pro Gln Gln Ile Thr Pro Arg Met
      770                      775                      780
Met Cys Val Gly Phe Leu Ser Gly Gly Val Asp Ser Cys Gln Gly Asp
785                      790                      795                      800
Ser Gly Gly Pro Leu Ser Ser Val Glu Ala Asp Gly Arg Ile Phe Gln
      805                      810                      815
Ala Gly Val Val Ser Trp Gly Asp Gly Cys Ala Gln Arg Asn Lys Pro
      820                      825                      830
Gly Val Tyr Thr Arg Leu Pro Leu Phe Arg Asp Trp Ile Lys Glu Asn
      835                      840                      845
Thr Gly Val
      850 851

```

&lt;210&gt; 1144

&lt;211&gt; 346

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(346)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1144

```

Arg His Glu Glu Asp Leu Gly Asn Leu Trp Glu Asn Thr Arg Phe Thr
  1                      5                      10                      15

```

```

Asp Cys Ser Phe Phe Val Arg Gly Gln Glu Phe Lys Ala His Lys Ser
      20      25      30
Val Leu Ala Ala Arg Ser Pro Val Phe Asn Ala Met Phe Glu His Glu
      35      40      45
Met Glu Glu Ser Lys Lys Asn Arg Val Glu Ile Asn Asp Leu Asp Pro
      50      55      60
Glu Val Phe Lys Glu Met Met Arg Phe Ile Tyr Thr Gly Arg Ala Pro
      65      70      75      80
Asn Leu Asp Lys Met Ala Asp Asn Leu Leu Ala Ala Ala Asp Lys Tyr
      85      90      95
Ala Leu Glu Arg Leu Lys Val Met Cys Glu Lys Ala Leu Cys Ser Asn
      100      105      110
Leu Ser Val Glu Asn Val Ala Asp Thr Leu Val Leu Ala Asp Leu His
      115      120      125
Ser Ala Glu Gln Leu Lys Ala Gln Ala Ile Asp Phe Ile Asn Arg Cys
      130      135      140
Ser Val Leu Arg Gln Leu Gly Cys Lys Asp Gly Lys Asn Trp Asn Ser
      145      150      155      160
Asn Gln Ala Thr Asp Ile Met Glu Thr Ser Gly Gly Lys Ser Met Ile
      165      170      175
Gln Ser His Pro His Leu Val Ala Glu Ala Phe Arg Ala Leu Ala Ser
      180      185      190
Ala Gln Gly Pro Gln Phe Gly Ile Pro Arg Lys Arg Leu Lys Gln Ser
      195      200      205
Xaa Asn Leu Gly Asn Leu Trp Glu Asn Thr Arg Phe Thr Asp Cys Ser
      210      215      220
Phe Phe Val Arg Gly Gln Glu Phe Lys Ala His Lys Ser Val Leu Ala
      225      230      235      240
Ala Arg Ser Pro Val Phe Asn Ala Met Phe Glu His Glu Met Glu Glu
      245      250      255
Ser Lys Lys Asn Arg Val Glu Ile Asn Asp Leu Asp Pro Glu Val Phe
      260      265      270
Lys Glu Met Met Arg Phe Ile Tyr Thr Gly Arg Ala Pro Asn Leu Asp
      275      280      285
Lys Met Ala Asp Asn Leu Leu Ala Ala Ala Asp Lys Tyr Ala Leu Glu
      290      295      300
Arg Leu Lys Val Met Cys Glu Lys Ala Leu Cys Ser Asn Leu Ser Val
      305      310      315      320
Glu Asn Val Ala Asp Thr Leu Val Leu Ala Asp Leu His Ser Gly Arg
      325      330      335
Thr Val Glu Ser Thr Ser His Arg Leu Tyr
      340      345 346

```

&lt;210&gt; 1145

&lt;211&gt; 339

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(339)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1145

```

Gln Arg Gly Gly Ile Pro Gly Lys Phe Gln Glu Asp Ser Gly Ser Val
  1      5      10      15
Asp Trp Ala Leu Gly Pro Phe Trp Gly Ile Phe Gln Ala Asp Phe Gly
      20      25      30
Cys Met Arg Phe Tyr Leu Ser Ala Gln Thr Ser Asp Pro Val Leu Arg

```

```

      35      40      45
Met Xaa Trp Gly Pro Ser Pro Ile Ser His Pro Thr Ser Leu Cys Pro
  50      55      60
Gly Gly Gly Gly Ala Gly Gln Thr Thr Gly Ser Leu Cys Leu Gly Gln
  65      70      75      80
Gln Cys Cys Pro Leu Ser Cys Pro Asn Ile Pro Ser Arg His Lys Arg
      85      90      95
Trp Arg Leu Xaa Ala Ala Leu Val Ala Gly Ser Arg Gly Ser Cys Thr
      100      105      110
Leu Arg Ser Xaa Arg Xaa Arg Thr Pro Leu Pro Val Thr Arg Asn Leu
      115      120      125
Pro Arg Cys His Leu His Leu His Pro Thr Gly Asp Leu Arg Val His
      130      135      140
Val His Gln His Cys Leu Leu His Gly His Val Pro Pro Gly Ala Ala
      145      150      155      160
Leu Leu Gln Cys Gly Gly Cys Asp Leu Arg Gly Glu Ala Ala Gly Leu
      165      170      175
Leu Phe Leu Gly His Ala Cys Leu Arg Gly Ser Val Asn Leu Arg Arg
      180      185      190
Asp Gln Trp Leu Pro Val Pro Tyr Ser Arg Leu Cys Phe Ser Gly Ala
      195      200      205
Arg Glu Gly His Leu Pro Ser Leu Leu Ala Met Ile His Val Arg His
      210      215      220
Cys Thr Pro Ile Pro Ala Leu Leu Val Cys Pro Ile Lys Val Asn Leu
      225      230      235      240
Leu Ile Pro Val Ala Tyr Leu Val Phe Trp Ala Phe Leu Leu Val Phe
      245      250      255
Ser Phe Ile Ser Glu His Met Val Cys Gly Val Gly Val Ile Ile Ile
      260      265      270
Leu Thr Gly Val Pro Ile Phe Phe Leu Gly Val Phe Trp Arg Ser Lys
      275      280      285
Pro Lys Cys Val His Arg Leu Thr Glu Ser Met Thr His Trp Gly Gln
      290      295      300
Glu Leu Cys Phe Val Val Tyr Pro Gln Asp Ala Pro Glu Glu Glu Glu
      305      310      315      320
Asn Gly Pro Cys Pro Pro Ser Leu Leu Pro Ala Thr Asp Lys Pro Ser
      325      330      335
Lys Pro Gln
      339

```

&lt;210&gt; 1146

&lt;211&gt; 425

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(425)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1146

```

Ala Ala Ala Leu Val Ala Glu Tyr Leu Ala Leu Leu Glu Asp His Arg
  1      5      10      15
His Leu Pro Val Gly Cys Val Ser Phe Gln Asn Ile Ser Ser Asn Val
      20      25      30
Leu Glu Glu Ser Ala Ile Ser Asp Asp Ile Leu Ser Pro Asp Glu Glu
      35      40      45
Gly Phe Cys Ser Gly Lys His Phe Thr Glu Leu Gly Leu Val Gly Leu
      50      55      60

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Leu Glu Gln Ala Ala Gly Tyr Phe Thr Met Gly Gly Leu Tyr Glu Ala
65      70      75      80
Val Asn Glu Val Tyr Lys Asn Leu Ile Pro Ile Leu Glu Ala His Arg
      85      90      95
Asp Tyr Lys Lys Leu Ala Ala Val His Gly Lys Leu Gln Glu Ala Phe
      100     105     110
Thr Lys Ile Met His Gln Ser Ser Gly Trp Glu Arg Val Phe Gly Thr
      115     120     125
Tyr Phe Arg Val Gly Phe Tyr Gly Ala His Phe Gly Asp Leu Asp Glu
130     135     140
Gln Glu Phe Val Tyr Lys Glu Pro Ser Ile Thr Lys Leu Ala Glu Ile
145     150     155     160
Ser His Arg Leu Glu Glu Phe Tyr Thr Glu Arg Phe Gly Asp Asp Val
      165     170     175
Val Glu Ile Ile Lys Asp Ser Asn Pro Val Asp Lys Ser Lys Leu Asp
      180     185     190
Ser Gln Lys Ala Tyr Ile Gln Ile Thr Tyr Val Glu Pro Tyr Phe Asp
      195     200     205
Thr Tyr Glu Leu Lys Asp Arg Val Thr Tyr Phe Asp Arg Asn Tyr Gly
210     215     220
Leu Arg Thr Phe Leu Phe Cys Thr Pro Phe Thr Pro Asp Gly Arg Ala
225     230     235     240
His Gly Glu Leu Pro Glu Gln His Lys Arg Lys Thr Leu Leu Ser Thr
      245     250     255
Asp His Ala Phe Pro Tyr Ile Lys Thr Arg Ile Arg Val Cys His Arg
      260     265     270
Glu Glu Thr Val Leu Thr Pro Val Glu Val Ala Ile Glu Asp Met Gln
275     280     285
Lys Lys Thr Arg Glu Leu Ala Phe Ala Thr Glu Gln Asp Pro Pro Asp
290     295     300
Ala Lys Met Leu Gln Met Val Leu Gln Gly Ser Val Gly Pro Thr Val
305     310     315     320
Asn Gln Gly Pro Leu Glu Val Ala Gln Val Phe Leu Ala Glu Ile Pro
      325     330     335
Glu Asp Pro Lys Leu Phe Arg His His Asn Lys Leu Arg Leu Cys Phe
      340     345     350
Lys Asp Phe Xaa Lys Lys Cys Glu Asp Ala Leu Arg Lys Asn Lys Ala
355     360     365
Leu Ile Gly Pro Asp Gln Lys Glu Tyr His Arg Glu Leu Glu Arg Asn
370     375     380
Tyr Cys Arg Leu Arg Glu Ala Leu Gln Pro Leu Leu Thr Gln Arg Leu
385     390     395     400
Pro Gln Leu Met Ala Pro Thr Pro Pro Gly Leu Arg Asn Ser Leu Asn
      405     410     415
Arg Ala Ser Phe Arg Lys Ala Asp Leu
      420     425

```

&lt;210&gt; 1147

&lt;211&gt; 198

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(198)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1147

Gly Glu Gly Gln Gln Trp Gln Ser Thr Pro Leu Ser Pro Leu Gln Pro

```

1           5           10           15
Thr Val Ala Asp Phe Leu Asn Leu Ala Trp Trp Thr Ser Ala Ala Ala
                20           25           30
Trp Xaa Val Leu Ser Gly Arg Trp Val Glu Lys Val Leu Pro Gly Arg
                35           40           45
Glu Gly Ser Glu Glu Lys Xaa Gly Met Ala Ser Ser Ser Ala Asp His
                50           55           60
Leu His Ser Ala Pro Arg Ala Leu Gln Ser Leu Phe Gln Gln Leu Leu
                65           70           75           80
Tyr Gly Leu Ile Tyr His Ser Trp Phe Gln Ala Gly Arg Xaa Gly Phe
                85           90           95
Gly Gly Ala Ser Ser Ser Pro Gly Pro Gln Ser Glu Leu Arg Arg Leu
                100           105           110
His Gly Glu Gly Gly Val Tyr Asp Xaa Gly Arg Pro Glu Thr Leu Pro
                115           120           125
Gly Ser Val Gly Gly Ala Glu Ala Leu Trp Ala Leu Ala Asp Pro Ala
                130           135           140
Glu Ala Glu Gly Ser Pro Glu Thr Arg Glu Ser Ser Cys Val Met Lys
                145           150           155           160
Gln Thr Gln Tyr Tyr Phe Gly Ser Val Asn Ala Ser Tyr Asn Ala Ile
                165           170           175
Ile Asp Cys Gly Asn Cys Ser Arg Cys Trp Gln Trp Gly Gly Thr Arg
                180           185           190
Gly Gln Gly Arg Asn Leu
                195           198

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<210> 1148
<211> 317
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1148
Val Ala Gly Ile Pro Ala Cys Phe Asp Asn Phe Thr Glu Ala Leu Ala
1           5           10           15
Glu Thr Ala Cys Arg Gln Met Gly Tyr Ser Ser Lys Pro Thr Phe Arg
                20           25           30
Ala Val Glu Ile Gly Pro Asp Gln Asp Leu Asp Val Val Glu Ile Thr
                35           40           45
Glu Asn Ser Gln Glu Leu Arg Met Arg Asn Ser Ser Gly Pro Cys Leu
                50           55           60
Ser Gly Ser Leu Val Ser Leu His Cys Leu Ala Cys Gly Glu Ser Leu
                65           70           75           80
Lys Thr Pro Arg Val Val Gly Gly Glu Glu Ala Ser Val Asp Ser Trp
                85           90           95
Pro Trp Gln Val Ser Ile Gln Tyr Asp Lys Gln His Val Cys Gly Gly
                100           105           110
Ser Ile Leu Asp Pro His Trp Val Leu Thr Ala Ala His Cys Phe Arg
                115           120           125
Lys His Thr Asp Val Phe Asn Trp Lys Val Arg Ala Gly Ser Asp Lys
                130           135           140
Leu Gly Ser Phe Pro Ser Leu Ala Val Ala Lys Ile Ile Ile Ile Glu
                145           150           155           160
Phe Asn Pro Met Tyr Pro Lys Asp Asn Asp Ile Ala Leu Met Lys Leu
                165           170           175
Gln Phe Pro Leu Thr Phe Ser Gly Thr Val Arg Pro Ile Cys Leu Pro
                180           185           190
Phe Phe Asp Glu Glu Leu Thr Pro Ala Thr Pro Leu Trp Ile Ile Gly
                195           200           205
Trp Gly Phe Thr Lys Gln Asn Gly Gly Lys Met Ser Asp Ile Leu Leu

```

210		215		220
Gln Ala Ser Val	Gln Val Ile Asp Ser Thr Arg Cys Asn Ala Asp Asp			
225		230		240
Ala Tyr Gln Gly	Glu Val Thr Glu Lys Met Met Cys Ala Gly Ile Pro			
	245		250	255
Glu Gly Gly Val	Asp Thr Cys Gln Gly Asp Ser Gly Gly Pro Leu Met			
	260		265	270
Tyr Gln Ser Asp	Gln Trp His Val Val Gly Ile Val Ser Trp Gly Tyr			
	275		280	285
Gly Cys Gly Gly	Pro Ser Thr Pro Gly Val Tyr Thr Lys Val Ser Ala			
	290		295	300
Tyr Leu Asn Trp	Ile Tyr Asn Val Trp Lys Ala Glu Leu			
305		310		315
				317

<210> 1149  
 <211> 320  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1149

Thr Ile Ser Thr	Val Arg Trp Asn Ser Arg Ile Gly Met Val Leu Gly
1	5 10 15
Val Ala Ile Gln	Lys Arg Ala Val Pro Gly Leu Tyr Ala Phe Glu Glu
	20 25 30
Ala Tyr Ala Arg	Ala Asp Lys Glu Ala Pro Arg Pro Cys His Lys Gly
	35 40 45
Ser Trp Cys Ser	Ser Asn Gln Leu Cys Arg Glu Cys Gln Ala Phe Met
	50 55 60
Ala His Thr Met	Pro Lys Leu Lys Ala Phe Ser Met Ser Ser Ala Tyr
	65 70 75 80
Asn Ala Tyr Arg	Ala Val Tyr Ala Val Ala His Gly Leu His Gln Leu
	85 90 95
Leu Gly Cys Ala	Ser Gly Ala Cys Ser Arg Gly Arg Val Tyr Pro Trp
	100 105 110
Gln Leu Leu Glu	Gln Ile His Lys Val His Phe Leu Leu His Lys Asp
	115 120 125
Thr Val Ala Phe	Asn Asp Asn Arg Asp Pro Leu Ser Ser Tyr Asn Ile
	130 135 140
Ile Ala Trp Asp	Trp Asn Gly Pro Lys Trp Thr Phe Thr Val Leu Gly
	145 150 155 160
Ser Ser Thr Trp	Ser Pro Val Gln Leu Asn Ile Asn Glu Thr Lys Ile
	165 170 175
Gln Trp His Gly	Lys Asp Asn Gln Val Pro Lys Ser Val Cys Ser Ser
	180 185 190
Asp Cys Leu Glu	Gly His Gln Arg Val Val Thr Gly Phe His His Cys
	195 200 205
Cys Phe Glu Cys	Val Pro Cys Gly Ala Gly Thr Phe Leu Asn Lys Ser
	210 215 220
Ser Tyr Leu Gly	Lys Asp Leu Pro Glu Asn Tyr Asn Glu Ala Lys Cys
	225 230 235 240
Val Thr Phe Ser	Leu Leu Phe Asn Phe Val Ser Trp Ile Ala Phe Phe
	245 250 255
Thr Thr Ala Ser	Val Tyr Asp Gly Lys Tyr Leu Pro Ala Ala Asn Met
	260 265 270
Met Ala Gly Leu	Ser Ser Leu Ser Ser Gly Phe Gly Gly Tyr Phe Leu
	275 280 285
Pro Lys Cys Tyr	Val Ile Leu Cys Arg Pro Asp Leu Asn Ser Thr Glu
	290 295 300
His Phe Gln Ala	Ser Ile Gln Asp Tyr Thr Arg Arg Cys Gly Ser Thr

305

310

315

320

<210> 1150  
 <211> 458  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1150  
 Val Ala Arg Gly Ala Phe His Pro Lys Met Gly Pro Ser Phe Pro Ser  
 1 5 10 15  
 Pro Lys Pro Gly Ser Glu Arg Leu Ser Phe Val Ser Ala Lys Gln Ser  
 20 25 30  
 Thr Gly Gln Asp Thr Glu Ala Glu Leu Gln Asp Ala Thr Leu Ala Leu  
 35 40 45  
 His Gly Leu Thr Val Glu Asp Glu Gly Asn Tyr Thr Cys Glu Phe Ala  
 50 55 60  
 Thr Phe Pro Lys Gly Ser Val Arg Gly Met Thr Trp Leu Arg Val Ile  
 65 70 75 80  
 Ala Lys Pro Lys Asn Gln Ala Glu Ala Gln Lys Val Thr Phe Ser Gln  
 85 90 95  
 Asp Pro Thr Thr Val Ala Leu Cys Ile Ser Lys Glu Gly Arg Pro Pro  
 100 105 110  
 Ala Arg Ile Ser Trp Leu Ser Ser Leu Asp Trp Glu Ala Lys Glu Thr  
 115 120 125  
 Gln Val Ser Gly Thr Leu Ala Gly Thr Val Thr Val Thr Ser Arg Phe  
 130 135 140  
 Thr Leu Val Pro Ser Gly Arg Ala Asp Gly Val Thr Val Thr Cys Lys  
 145 150 155 160  
 Val Glu His Glu Ser Phe Glu Glu Pro Ala Leu Ile Pro Val Thr Leu  
 165 170 175  
 Ser Val Arg Tyr Pro Pro Glu Val Ser Ile Ser Gly Tyr Asp Asp Asn  
 180 185 190  
 Trp Tyr Leu Gly Arg Thr Asp Ala Thr Leu Ser Cys Asp Val Arg Ser  
 195 200 205  
 Asn Pro Glu Pro Thr Gly Tyr Asp Trp Ser Thr Thr Ser Gly Thr Phe  
 210 215 220  
 Pro Thr Ser Ala Val Ala Gln Gly Ser Gln Leu Val Ile His Ala Val  
 225 230 235 240  
 Asp Ser Leu Phe Asn Thr Thr Phe Val Cys Thr Val Thr Asn Ala Val  
 245 250 255  
 Gly Met Gly Arg Ala Glu Gln Val Ile Phe Val Arg Glu Thr Pro Asn  
 260 265 270  
 Thr Ala Gly Ala Gly Ala Thr Gly Gly Ile Ile Gly Gly Ile Ile Ala  
 275 280 285  
 Ala Ile Ile Ala Thr Ala Asp Ala Thr Gly Ile Leu Ile Cys Arg Gln  
 290 295 300  
 Gln Arg Lys Glu Gln Thr Leu Gln Gly Ala Glu Glu Asp Glu Asp Leu  
 305 310 315 320  
 Glu Gly Pro Pro Ser Tyr Lys Pro Pro Thr Pro Lys Ala Lys Leu Glu  
 325 330 335  
 Ala Gln Glu Met Pro Ser Gln Leu Phe Thr Leu Gly Ala Ser Glu His  
 340 345 350  
 Ser Pro Leu Lys Thr Pro Tyr Phe Asp Ala Gly Ala Ser Cys Thr Glu  
 355 360 365  
 Gln Glu Met Pro Arg Tyr His Glu Leu Pro Thr Leu Glu Glu Arg Ser  
 370 375 380  
 Gly Pro Leu His Pro Gly Ala Thr Ser Leu Gly Ser Pro Ile Pro Val

385					390					395					400
Pro	Pro	Gly	Pro	Pro	Ala	Val	Glu	Asp	Val	Ser	Leu	Asp	Leu	Glu	Asp
				405					410					415	
Glu	Glu	Gly	Glu	Glu	Glu	Glu	Glu	Tyr	Leu	Asp	Lys	Ile	Asn	Pro	Ile
			420					425					430		
Tyr	Asp	Ala	Leu	Ser	Tyr	Ser	Ser	Pro	Ser	Asp	Ser	Tyr	Gln	Gly	Lys
		435					440					445			
Gly	Phe	Val	Met	Ser	Arg	Ala	Met	Tyr	Val						
	450					455			458						

```
<210> 1151
<211> 608
<212> Amino acid
<213> Homo sapiens
```

<400> 1151																
Gly 1	Thr	Arg	Leu	Arg 5	Glu	Asp	Lys	Asn	His 10	Asn	Met	Tyr	Val	Ala	Gly 15	
Cys	Thr	Glu	Val	Glu	Val	Lys	Ser	Thr	Glu	Glu	Ala	Phe	Glu	Val	Phe 20	
Trp	Arg	Gly	Gln	Lys	Lys	Arg	Arg	Ile	Ala	Asn	Thr	His	Leu	Asn	Arg 25	
Glu	Ser	Ser	Arg	Ser	His	Ser	Val	Phe	Asn	Ile	Lys	Leu	Val	Gln	Ala 30	
Pro 50	Leu	Asp	Ala	Asp	Gly	Asp	Asn	Val	Leu	Gln	Glu	Lys	Glu	Gln	Ile 40	
Thr 65	Ile	Ser	Gln	Leu	Ser	Leu	Val	Asp	Leu	Ala	Gly	Ser	Glu	Arg	Thr 50	
Asn	Arg	Thr	Arg	Ala	Glu	Gly	Asn	Arg	Leu	Arg	Glu	Ala	Gly	Asn	Ile 55	
Asn	Gln	Ser	Leu	Met	Thr	Leu	Arg	Thr	Cys	Met	Asp	Val	Leu	Arg	Glu 60	
Asn 115	Gln	Met	Tyr	Gly	Thr	Asn	Lys	Met	Val	Pro	Tyr	Arg	Asp	Ser	Lys 120	
Leu 130	Thr	His	Leu	Phe	Lys	Asn	Tyr	Phe	Asp	Gly	Glu	Gly	Lys	Val	Arg 135	
Met 145	Ile	Val	Cys	Val	Asn	Pro	Lys	Ala	Glu	Asp	Tyr	Glu	Glu	Asn	Leu 150	
Gln	Val	Met	Arg	Phe	Ala	Glu	Val	Thr	Gln	Glu	Val	Glu	Val	Ala	Arg 165	
Pro	Val	Asp	Lys	Ala	Ile	Cys	Gly	Leu	Thr	Pro	Gly	Arg	Arg	Tyr	Arg 180	
Asn 195	Gln	Pro	Arg	Gly	Pro	Ile	Gly	Asn	Glu	Pro	Leu	Val	Thr	Asp	Val 200	
Val 210	Leu	Gln	Ser	Phe	Pro	Pro	Leu	Pro	Ser	Cys	Glu	Ile	Leu	Asp	Ile 215	
Asn 225	Asp	Glu	Gln	Thr	Leu	Pro	Arg	Leu	Ile	Glu	Ala	Leu	Glu	Lys	Arg 230	
His	Asn	Leu	Arg	Gln	Met	Met	Ile	Asp	Glu	Phe	Asn	Lys	Gln	Ser	Asn 245	
Ala	Phe	Lys	Ala	Leu	Leu	Gln	Glu	Phe	Asp	Asn	Ala	Val	Leu	Ser	Lys 260	
Glu	Asn	His	Met	Gln	Gly	Lys	Leu	Asn	Glu	Lys	Glu	Lys	Met	Ile	Ser 275	
Gly 305	Gln	Lys	Leu	Glu	Ile	Glu	Arg	Leu	Glu	Lys	Lys	Asn	Lys	Thr	Leu 290	
Glu	Tyr	Lys	Ile	Glu	Ile	Leu	Glu	Lys	Thr	Thr	Thr	Ile	Tyr	Glu	Glu 310	
Asp	Lys	Arg	Asn	Leu	Gln	Gln	Glu	Leu	Glu	Thr	Gln	Asn	Gln	Lys	Leu 325	



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      340      345      350
Gln Arg Gln Phe Ser Asp Lys Arg Arg Leu Glu Ala Arg Leu Gln Gly
      355      360      365
Met Val Thr Glu Thr Thr Met Lys Trp Glu Lys Glu Cys Glu Arg Arg
      370      375      380
Val Ala Ala Lys Gln Leu Glu Met Gln Asn Lys Leu Trp Val Lys Asp
385      390      395      400
Glu Lys Leu Lys Gln Leu Lys Ala Ile Val Thr Glu Pro Lys Thr Glu
      405      410      415
Lys Pro Glu Arg Pro Ser Arg Glu Arg Asp Arg Glu Lys Val Thr Gln
      420      425      430
Arg Ser Val Ser Pro Ser Pro Val Pro Leu Leu Phe Gln Pro Asp Gln
      435      440      445
Asn Ala Pro Pro Ile Arg Leu Arg His Arg Arg Ser Arg Ser Ala Gly
450      455      460
Asp Arg Trp Val Asp His Lys Pro Ala Ser Asn Met Gln Thr Glu Thr
465      470      475      480
Val Met Gln Pro His Val Pro His Ala Ile Thr Val Ser Val Ala Asn
      485      490      495
Glu Lys Ala Leu Ala Lys Cys Glu Lys Tyr Met Leu Thr His Gln Glu
      500      505      510
Leu Ala Ser Asp Gly Glu Ile Glu Thr Lys Leu Ile Lys Gly Asp Ile
515      520      525
Tyr Lys Thr Arg Gly Gly Gly Gln Ser Val Gln Phe Thr Asp Ile Glu
530      535      540
Thr Leu Lys Gln Glu Ser Pro Asn Gly Ser Arg Lys Arg Arg Ser Ser
545      550      555      560
Thr Val Ala Pro Ala Gln Pro Asp Gly Ala Glu Ser Glu Trp Thr Asp
      565      570      575
Val Glu Thr Arg Cys Ser Val Ala Val Glu Met Arg Ala Gly Ser Gln
580      585      590
Leu Gly Pro Gly Tyr Gln His His Ala Gln Pro Lys Arg Lys Lys Pro
595      600      605      608

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<210> 1152  
 <211> 111  
 <212> Amino acid  
 <213> Homo sapiens

```

      <400> 1152
Pro Phe Ser Ser Ser Ser Val Ser Ser Lys Gly Ser Asp Pro Phe Gly
  1      5      10      15
Thr Leu Asp Pro Phe Gly Ser Gly Ser Phe Asn Ser Ala Glu Gly Phe
      20      25      30
Ala Asp Phe Ser Gln Met Ser Lys Gly Lys Ser Thr Pro Val Ser Gln
      35      40      45
Leu Gly Ser Ala Asp Phe Pro Glu Ala Pro Asp Pro Phe Gln Pro Leu
      50      55      60
Gly Ala Asp Ser Gly Asp Pro Phe Gln Ser Lys Lys Gly Phe Gly Asp
      65      70      75      80
Pro Phe Ser Gly Lys Asp Pro Phe Val Pro Ser Ser Ala Ala Lys Pro
      85      90      95
Ser Lys Ala Ser Ala Ser Gly Phe Ala Asp Phe Thr Ser Val Ser
      100      105      110 111

```

<210> 1153

<211> 444  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1153  
 Met Ser Leu Met Val Val Ser Met Ala Cys Val Gly Leu Phe Leu Val  
 1 5 10 15  
 Gln Arg Ala Gly Pro His Met Gly Gly Gln Asp Lys Pro Phe Leu Ser  
 20 25 30  
 Ala Trp Pro Ser Ala Val Val Pro Arg Gly Gly His Val Thr Leu Arg  
 35 40 45  
 Cys His Tyr Arg His Arg Phe Asn Asn Phe Met Leu Tyr Lys Glu Asp  
 50 55 60  
 Arg Ile His Ile Pro Ile Phe His Gly Arg Ile Phe Gln Glu Ser Phe  
 65 70 75 80  
 Asn Met Ser Pro Val Thr Thr Ala His Ala Gly Asn Tyr Thr Cys Arg  
 85 90 95  
 Gly Ser His Pro His Ser Pro Thr Gly Trp Ser Ala Pro Ser Asn Pro  
 100 105 110  
 Val Val Ile Met Val Thr Gly Asn His Arg Lys Pro Ser Leu Leu Ala  
 115 120 125  
 His Pro Gly Pro Leu Val Lys Ser Gly Glu Arg Val Ile Leu Gln Cys  
 130 135 140  
 Trp Ser Asp Ile Met Phe Glu His Phe Phe Leu His Lys Glu Gly Ile  
 145 150 155 160  
 Ser Lys Asp Pro Ser Arg Leu Val Gly Gln Ile His Asp Gly Val Ser  
 165 170 175  
 Lys Ala Asn Phe Ser Ile Gly Pro Met Met Gln Asp Leu Ala Gly Thr  
 180 185 190  
 Tyr Arg Cys Tyr Gly Ser Val Thr His Ser Pro Tyr Gln Leu Ser Ala  
 195 200 205  
 Pro Ser Asp Pro Leu Asp Ile Val Ile Thr Gly Leu Tyr Glu Lys Pro  
 210 215 220  
 Ser Leu Ser Ala Gln Pro Gly Pro Thr Val Leu Ala Gly Glu Ser Val  
 225 230 235 240  
 Thr Leu Ser Cys Ser Ser Arg Ser Ser Tyr Asp Met Tyr His Leu Ser  
 245 250 255  
 Arg Glu Gly Glu Ala His Glu Arg Arg Phe Ser Ala Gly Pro Lys Val  
 260 265 270  
 Asn Gly Thr Phe Gln Ala Asp Phe Pro Leu Gly Pro Ala Thr His Gly  
 275 280 285  
 Gly Thr Tyr Arg Cys Phe Gly Ser Phe Arg Asp Ser Pro Tyr Glu Trp  
 290 295 300  
 Ser Asn Ser Ser Asp Pro Leu Leu Val Ser Val Thr Gly Asn Pro Ser  
 305 310 315 320  
 Asn Ser Trp Pro Ser Pro Thr Glu Pro Ser Ser Glu Thr Gly Asn Pro  
 325 330 335  
 Arg His Leu His Val Leu Ile Gly Thr Ser Val Val Ile Ile Leu Phe  
 340 345 350  
 Ile Leu Leu Phe Phe Leu Leu His Arg Trp Cys Ser Asn Lys Lys  
 355 360 365  
 Asn Ala Ala Val Met Asp Gln Glu Ser Ala Gly Asn Arg Thr Ala Asn  
 370 375 380  
 Ser Glu Asp Ser Asp Glu Gln Asp Pro Gln Glu Val Thr Tyr Thr Gln  
 385 390 395 400  
 Leu Asn His Cys Val Phe Thr Gln Arg Lys Ile Thr Arg Pro Ser Gln  
 405 410 415  
 Arg Pro Lys Thr Pro Pro Thr Asp Ile Ile Val Tyr Thr Glu Leu Pro  
 420 425 430  
 Asn Ala Glu Ser Arg Ser Lys Val Val Ser Cys Pro

435

440

444

<210> 1154  
 <211> 522  
 <212> Amino acid  
 <213> Homo sapiens

&lt;400&gt; 1154

```

Met Ser Leu Arg Val His Thr Leu Pro Thr Leu Leu Gly Ala Val Val
 1          5          10          15
Arg Pro Gly Cys Arg Glu Leu Leu Cys Leu Leu Met Ile Thr Val Thr
      20          25          30
Val Gly Pro Gly Ala Ser Gly Val Cys Pro Thr Ala Cys Ile Cys Ala
      35          40          45
Thr Asp Ile Val Ser Cys Thr Asn Lys Asn Leu Ser Lys Val Pro Gly
      50          55          60
Asn Leu Phe Arg Leu Ile Lys Arg Leu Asp Leu Ser Tyr Asn Arg Ile
      65          70          75          80
Gly Leu Leu Asp Ser Glu Trp Ile Pro Val Ser Phe Ala Lys Leu Asn
      85          90          95
Thr Leu Ile Leu Arg His Asn Asn Ile Thr Ser Ile Ser Thr Gly Ser
      100          105          110
Phe Ser Thr Thr Pro Asn Leu Lys Cys Leu Asp Leu Ser Ser Asn Lys
      115          120          125
Leu Lys Thr Val Lys Asn Ala Val Phe Gln Glu Leu Lys Val Leu Glu
      130          135          140
Val Leu Leu Leu Tyr Asn Asn His Ile Ser Tyr Leu Asp Pro Ser Ala
      145          150          155          160
Phe Gly Gly Leu Ser Gln Leu Gln Lys Leu Tyr Leu Ser Gly Asn Phe
      165          170          175
Leu Thr Gln Phe Pro Met Asp Leu Tyr Val Gly Arg Phe Lys Leu Ala
      180          185          190
Glu Leu Met Phe Leu Asp Val Ser Tyr Asn Arg Ile Pro Ser Met Pro
      195          200          205
Met His His Ile Asn Leu Val Pro Gly Lys Gln Leu Arg Gly Ile Tyr
      210          215          220
Leu His Gly Asn Pro Phe Val Cys Asp Cys Ser Leu Val Ser Leu Leu
      225          230          235          240
Val Phe Trp Tyr Arg Arg His Phe Ser Ser Val Met Asp Phe Lys Asn
      245          250          255
Asp Tyr Thr Cys Arg Leu Trp Ser Asp Ser Arg His Ser Arg Gln Val
      260          265          270
Leu Leu Leu Gln Asp Ser Phe Met Asn Cys Ser Asp Ser Ile Ile Asn
      275          280          285
Gly Ser Phe Arg Ala Leu Gly Phe Ile His Glu Ala Gln Val Gly Glu
      290          295          300
Arg Leu Met Val His Cys Asp Ser Lys Thr Gly Asn Ala Asn Thr Asp
      305          310          315          320
Phe Ile Trp Val Gly Pro Asp Asn Arg Leu Leu Glu Pro Asp Lys Glu
      325          330          335
Met Glu Asn Phe Tyr Val Phe His Asn Gly Ser Leu Val Ile Glu Ser
      340          345          350
Pro Arg Phe Glu Asp Ala Gly Val Tyr Ser Cys Ile Ala Met Asn Lys
      355          360          365
Gln Arg Leu Leu Asn Glu Thr Val Asp Val Thr Ile Asn Val Ser Asn
      370          375          380
Phe Thr Val Ser Arg Ser His Ala His Glu Ala Phe Asn Thr Ala Phe
      385          390          395          400
Thr Thr Leu Ala Ala Cys Val Ala Ser Ile Val Leu Val Leu Leu Tyr

```

```

          405                      410                      415
Leu Tyr Leu Thr Pro Cys Pro Cys Lys Cys Lys Thr Lys Arg Gln Lys
          420                      425                      430
Asn Met Leu His Gln Ser Asn Ala His Ser Ser Ile Leu Ser Pro Gly
          435                      440                      445
Pro Ala Ser Asp Ala Ser Ala Asp Glu Arg Lys Ala Gly Ala Gly Lys
          450                      455                      460
Arg Val Val Phe Leu Glu Pro Leu Lys Asp Thr Ala Ala Gly Gln Asn
          465                      470                      475                      480
Gly Lys Val Arg Leu Phe Pro Ser Glu Ala Val Ile Ala Glu Gly Ile
          485                      490                      495
Leu Lys Ser Thr Arg Gly Lys Ser Asp Ser Asp Ser Val Asn Ser Val
          500                      505                      510
Phe Ser Asp Thr Pro Phe Val Ala Ser Thr
          515                      520                      522

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<210> 1155
<211> 642
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1155
Ala Ser Asp Phe Ile Arg Ser Leu Asp His Cys Gly Tyr Leu Ser Leu
  1                      5                      10                      15
Glu Gly Val Phe Ser His Lys Phe Asp Phe Glu Leu Gln Asp Val Ser
          20                      25                      30
Ser Val Asn Glu Asp Val Leu Leu Thr Thr Gly Leu Leu Cys Lys Tyr
          35                      40                      45
Thr Ala Gln Arg Phe Lys Pro Lys Tyr Lys Phe Phe His Lys Ser Phe
          50                      55                      60
Gln Glu Tyr Thr Ala Gly Arg Arg Leu Ser Ser Leu Leu Thr Ser His
          65                      70                      75                      80
Glu Pro Glu Glu Val Thr Lys Gly Asn Gly Tyr Leu Gln Lys Met Val
          85                      90                      95
Ser Ile Ser Asp Ile Thr Ser Thr Tyr Ser Ser Leu Leu Arg Tyr Thr
          100                      105                      110
Cys Gly Ser Ser Val Glu Ala Thr Arg Ala Val Met Lys His Leu Ala
          115                      120                      125
Ala Val Tyr Gln His Gly Cys Leu Leu Gly Leu Ser Ile Ala Lys Arg
          130                      135                      140
Pro Leu Trp Arg Gln Glu Ser Leu Gln Ser Val Lys Asn Thr Thr Glu
          145                      150                      155                      160
Gln Glu Ile Leu Lys Ala Ile Asn Ile Asn Ser Phe Val Glu Cys Gly
          165                      170                      175
Ile His Leu Tyr Gln Glu Ser Thr Ser Lys Ser Ala Leu Ser Gln Glu
          180                      185                      190
Phe Glu Ala Phe Phe Gln Gly Lys Ser Leu Tyr Ile Asn Ser Gly Asn
          195                      200                      205
Ile Pro Asp Tyr Leu Phe Asp Phe Phe Glu His Leu Pro Asn Cys Ala
          210                      215                      220
Ser Ala Leu Asp Phe Ile Lys Leu Gly Phe Tyr Gly Gly Ala Met Ala
          225                      230                      235                      240
Ser Trp Glu Lys Ala Ala Glu Asp Thr Gly Gly Ile His Met Glu Glu
          245                      250                      255
Ala Pro Glu Thr Tyr Ile Pro Ser Arg Ala Val Ser Leu Phe Phe Asn
          260                      265                      270
Trp Lys Gln Glu Phe Arg Thr Leu Glu Val Thr Leu Arg Asp Phe Ser
          275                      280                      285
Lys Leu Asn Lys Lys Gln Asp Ile Arg Tyr Leu Gly Lys Ile Phe Ser Ser

```

```

      290                      295                      300
Ala Thr Ser Leu Arg Leu Gln Ile Lys Arg Cys Ala Gly Val Ala Gly
305                      310                      315                      320
Ser Leu Ser Leu Val Leu Ser Thr Cys Lys Asn Ile Tyr Ser Leu Met
      325                      330                      335
Val Glu Ala Ser Pro Leu Thr Ile Glu Asp Glu Arg His Ile Thr Ser
      340                      345                      350
Val Thr Asn Leu Lys Thr Leu Ser Ile His Asp Leu Gln Asn Gln Arg
      355                      360                      365
Leu Pro Gly Gly Leu Thr Asp Ser Leu Gly Asn Leu Lys Asn Leu Thr
      370                      375                      380
Lys Leu Ile Met Asp Asn Ile Lys Met Asn Glu Glu Asp Ala Ile Lys
385                      390                      395                      400
Leu Ala Glu Gly Leu Lys Asn Leu Lys Lys Met Cys Leu Phe His Leu
      405                      410                      415
Thr His Leu Ser Asp Ile Gly Glu Gly Met Asp Tyr Ile Val Lys Ser
      420                      425                      430
Leu Ser Ser Glu Pro Cys Asp Leu Glu Glu Ile Gln Leu Val Ser Cys
      435                      440                      445
Cys Leu Ser Ala Asn Ala Val Lys Ile Leu Ala Gln Asn Leu His Asn
      450                      455                      460
Leu Val Lys Leu Ser Ile Leu Asp Leu Ser Glu Asn Tyr Leu Glu Lys
465                      470                      475                      480
Asp Gly Asn Glu Ala Leu His Glu Leu Ile Asp Arg Met Asn Val Leu
      485                      490                      495
Glu Gln Leu Thr Ala Leu Met Leu Pro Trp Gly Cys Asp Val Gln Gly
      500                      505                      510
Ser Leu Ser Ser Leu Leu Lys His Leu Glu Glu Val Pro Gln Leu Val
      515                      520                      525
Lys Leu Gly Leu Lys Asn Trp Arg Leu Thr Asp Thr Glu Ile Arg Ile
      530                      535                      540
Leu Gly Ala Phe Phe Gly Lys Asn Pro Leu Lys Asn Phe Gln Gln Leu
545                      550                      555                      560
Asn Leu Ala Gly Asn Arg Val Ser Ser Asp Gly Trp Leu Ala Phe Met
      565                      570                      575
Gly Val Phe Glu Asn Leu Lys Gln Leu Val Phe Phe Asp Phe Ser Thr
      580                      585                      590
Lys Glu Phe Leu Pro Asp Pro Ala Leu Val Arg Lys Leu Ser Gln Val
      595                      600                      605
Leu Ser Lys Leu Thr Phe Leu Gln Glu Ala Arg Leu Val Gly Trp Gln
      610                      615                      620
Phe Asp Asp Asp Asp Leu Ser Val Ile Thr Gly Ala Phe Lys Leu Val
625                      630                      635                      640
Thr Ala
642

```

&lt;210&gt; 1156

&lt;211&gt; 125

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(125)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1156

```

Ala Ser Asp Arg Lys Val Ala Met Thr Cys Asp Cys Phe Trp Phe Arg
 1              5              10              15

```

```

Thr Met Leu Asp Gln His Ala Ser Cys Met Glu Val Gly Thr Glu Arg
      20      25      30
Glu Arg Gln Ala Gly Gly Leu Val Met Phe Asp Pro Ser Gly Phe Pro
      35      40      45
Thr Gly Glu Lys Val Leu Gln Asp Asp Glu Phe Thr Cys Asp Leu Phe
      50      55      60
Arg Phe Leu Gln Leu Leu Cys Glu Gly His Asn Ser Gly Leu Xaa Val
      65      70      75      80
Pro Gly Thr Ser Asp Asp Thr Lys Ala Xaa Ile Met Phe Ser Ser Gln
      85      90      95
Xaa Xaa Gln Glu Pro Val Ser Ser Asn Tyr Ala Ser Phe Xaa Arg Gln
      100     105     110
Gln Ile Ile Leu Glu His Gly Ser Ala Leu Gly Ser Gly
      115     120     125

```

&lt;210&gt; 1157

&lt;211&gt; 91

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(91)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1157

```

Glu Ile Thr His Ile Val Gly Glu Thr Ala Ala Phe Leu Cys Pro Arg
  1      5      10      15
Leu Arg Leu Arg Arg Gly Gly Lys Asp Gly Ser Pro Lys Pro Gly Phe
      20      25      30
Leu Ala Ser Val Ile Pro Val Asp Arg Arg Pro Gly Glu Xaa Asp Ile
      35      40      45
Thr His Ile Val Gly Glu Thr Ala Ala Phe Leu Cys Pro Arg Leu Arg
      50      55      60
Leu Arg Arg Gly Gly Lys Asp Gly Ser Pro Lys Pro Gly Phe Leu Ala
      65      70      75      80
Ser Val Ile Pro Val Asp Arg Arg Pro Gly Glu
      85      90      91

```

&lt;210&gt; 1158

&lt;211&gt; 254

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(254)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1158

```

Ser Lys Phe Ile Phe Tyr Val Asp Ser Gln Ser Met Ile Phe Phe Phe
  1      5      10      15
Gln Thr Pro Thr Arg His Lys Val Leu Ile Met Glu Phe Cys Pro Cys
      20      25      30

```

Gly Ser Leu Tyr Thr Val Leu Glu Glu Pro Ser Asn Ala Tyr Gly Leu  
           35                  40                  45  
 Pro Glu Ser Glu Phe Leu Ile Val Leu Arg Asp Val Val Gly Gly Met  
           50                  55                  60  
 Asn His Leu Arg Glu Asn Gly Ile Val His Arg Asp Ile Lys Pro Gly  
           65                  70                  75                  80  
 Asn Ile Met Arg Val Ile Gly Glu Asp Gly Gln Ser Val Tyr Lys Leu  
                   85                  90                  95  
 Thr Asp Phe Gly Ala Ala Arg Glu Leu Glu Asp Asp Glu Gln Phe Val  
           100                  105                  110  
 Ser Leu Tyr Gly Thr Glu Glu Tyr Leu His Pro Asp Met Tyr Glu Arg  
           115                  120                  125  
 Ala Val Leu Arg Lys Asp His Gln Lys Lys Tyr Gly Ala Thr Val Asp  
           130                  135                  140  
 Leu Trp Ser Ile Gly Val Thr Phe Tyr Gln Gly Lys Pro Thr Gly Ser  
           145                  150                  155                  160  
 Leu Ala Ile Xaa His Pro Phe Glu Gly Ala Ser Val Arg Asn Lys Ala  
                   165                  170                  175  
 Ser Asp Gly Ile Lys Ile Ile Thr Gly Lys Gly Leu Leu Gly Ala Ile  
           180                  185                  190  
 Ser Gly Val Gln Lys Ser Lys Lys Asn Gly Pro Ile Asp Trp Glu Trp  
           195                  200                  205  
 Glu Asp Met Pro Val Ser Cys Ser Pro Ser Ser Gly Val Leu Arg Val  
           210                  215                  220  
 Pro Asn Leu Pro Pro Val Leu Ala Asn Ile Leu Glu Ser Arg Ser Arg  
           225                  230                  235                  240  
 Lys Lys Cys Trp Gly Phe Xaa Pro Ser Phe Leu Gln Glu Asn  
                   245                  250                  254

<210> 1159  
 <211> 162  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1159  
 Gly Ser Thr Ile Ser Cys Glu Arg Ser Leu Arg Ser Leu Trp Thr Ala  
           1                  5                  10                  15  
 His Trp Ala Leu Pro Glu Met Asp Ser Arg Ile Pro Tyr Asp Asp Tyr  
           20                  25                  30  
 Pro Val Val Phe Leu Pro Ala Tyr Glu Asn Pro Pro Ala Trp Ile Pro  
           35                  40                  45  
 Pro His Glu Arg Val His His Pro Asp Tyr Asn Asn Glu Leu Thr Gln  
           50                  55                  60  
 Phe Leu Pro Arg Thr Ile Thr Leu Lys Lys Pro Pro Gly Ala Gln Leu  
           65                  70                  75                  80  
 Gly Phe Asn Ile Arg Gly Gly Lys Ala Ser Gln Leu Gly Ile Phe Ile  
                   85                  90                  95  
 Ser Lys Val Ile Pro Asp Ser Asp Ala His Arg Ala Gly Leu Gln Glu  
           100                  105                  110  
 Gly Asp Gln Val Leu Ala Val Asn Asp Val Asp Phe Gln Asp Ile Glu  
           115                  120                  125  
 His Ser Lys Ala Val Glu Ile Leu Lys Thr Ala Arg Glu Ile Ser Met  
           130                  135                  140  
 Arg Val Arg Phe Phe Pro Tyr Asn Tyr His Arg Gln Lys Glu Arg Thr  
           145                  150                  155                  160  
 Val His  
           162

<210> 1160  
 <211> 295  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1160  
 His Glu Gln Val Ser Ala Leu His Arg Arg Ile Lys Ala Ile Val Glu  
 1 5 10 15  
 Val Ala Ala Met Cys Gly Val Asn Ile Ile Cys Phe Gln Glu Ala Trp  
 20 25 30  
 Thr Met Pro Phe Ala Phe Cys Thr Arg Glu Lys Leu Pro Trp Thr Glu  
 35 40 45  
 Phe Ala Glu Ser Ala Glu Asp Gly Pro Thr Thr Arg Phe Cys Gln Lys  
 50 55 60  
 Leu Ala Lys Asn His Asp Met Val Val Val Ser Pro Ile Leu Glu Arg  
 65 70 75 80  
 Asp Ser Glu His Gly Asp Val Leu Trp Asn Thr Ala Val Val Ile Ser  
 85 90 95  
 Asn Ser Gly Ala Val Leu Gly Lys Thr Arg Lys Asn His Ile Pro Arg  
 100 105 110  
 Val Gly Asp Phe Asn Glu Ser Thr Tyr Tyr Met Glu Gly Asn Leu Gly  
 115 120 125  
 His Pro Val Phe Gln Thr Gln Phe Gly Arg Ile Ala Val Asn Ile Cys  
 130 135 140  
 Tyr Gly Arg His His Pro Leu Asn Trp Leu Met Tyr Ser Ile Asn Gly  
 145 150 155 160  
 Ala Glu Ile Ile Phe Asn Pro Ser Ala Thr Ile Gly Ala Leu Ser Glu  
 165 170 175  
 Ser Leu Trp Pro Ile Glu Ala Arg Asn Ala Ala Ile Ala Asn His Cys  
 180 185 190  
 Phe Thr Cys Ala Ile Asn Arg Val Gly Thr Glu His Phe Pro Asn Glu  
 195 200 205  
 Phe Thr Ser Gly Asp Gly Lys Lys Ala His Gln Asp Phe Gly Tyr Phe  
 210 215 220  
 Tyr Gly Ser Ser Tyr Val Ala Ala Pro Asp Ser Ser Arg Thr Pro Gly  
 225 230 235 240  
 Leu Ser Arg Ser Arg Asp Gly Leu Leu Val Ala Lys Leu Asp Leu Asn  
 245 250 255  
 Leu Cys Gln Gln Val Asn Asp Val Trp Asn Phe Lys Met Thr Gly Arg  
 260 265 270  
 Tyr Glu Met Tyr Ala Arg Glu Leu Ala Glu Ala Val Lys Ser Asn Tyr  
 275 280 285  
 Ser Pro Thr Ile Val Lys Glu  
 290 295

<210> 1161  
 <211> 1621  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(1621)  
 <223> X = any amino acid or stop code



<400> 1161

Met	Ala	Lys	Ser	Gly	Gly	Cys	Gly	Ala	Gly	Ala	Gly	Val	Gly	Gly	Gly	1	5	10	15
Asn	Gly	Ala	Leu	Thr	Trp	Val	Asn	Asn	Ala	Ala	Lys	Lys	Glu	Glu	Ser	20	25	30	
Glu	Thr	Ala	Asn	Lys	Asn	Asp	Ser	Ser	Lys	Lys	Leu	Ser	Val	Glu	Arg	35	40	45	
Val	Tyr	Gln	Lys	Lys	Thr	Gln	Leu	Glu	His	Ile	Leu	Leu	Arg	Pro	Asp	50	55	60	
Thr	Tyr	Ile	Gly	Ser	Val	Glu	Pro	Leu	Thr	Gln	Phe	Met	Trp	Val	Tyr	65	70	75	80
Asp	Glu	Asp	Val	Gly	Met	Asn	Cys	Arg	Glu	Val	Thr	Phe	Val	Pro	Gly	85	90	95	
Leu	Tyr	Lys	Ile	Phe	Asp	Glu	Ile	Leu	Val	Asn	Ala	Ala	Asp	Asn	Lys	100	105	110	
Gln	Arg	Asp	Lys	Asn	Met	Thr	Cys	Ile	Lys	Val	Ser	Ile	Asp	Pro	Glu	115	120	125	
Ser	Asn	Ile	Ile	Ser	Ile	Trp	Asn	Asn	Gly	Lys	Gly	Ile	Pro	Val	Val	130	135	140	
Glu	His	Lys	Val	Glu	Lys	Val	Tyr	Val	Pro	Ala	Leu	Ile	Phe	Gly	Gln	145	150	155	160
Leu	Leu	Thr	Ser	Ser	Asn	Tyr	Asp	Asp	Asp	Glu	Lys	Lys	Val	Thr	Gly	165	170	175	
Gly	Arg	Asn	Gly	Tyr	Gly	Ala	Lys	Leu	Cys	Asn	Ile	Phe	Ser	Thr	Lys	180	185	190	
Phe	Thr	Val	Glu	Thr	Ala	Cys	Lys	Glu	Tyr	Lys	His	Ser	Phe	Lys	Gln	195	200	205	
Thr	Trp	Met	Asn	Asn	Met	Met	Lys	Thr	Ser	Glu	Ala	Lys	Ile	Lys	His	210	215	220	
Phe	Asp	Gly	Glu	Asp	Tyr	Thr	Cys	Ile	Thr	Phe	Gln	Pro	Asp	Leu	Ser	225	230	235	240
Lys	Phe	Lys	Met	Glu	Lys	Leu	Asp	Lys	Asp	Ile	Val	Ala	Leu	Met	Thr	245	250	255	
Arg	Arg	Ala	Tyr	Asp	Leu	Ala	Gly	Ser	Cys	Arg	Gly	Val	Lys	Val	Met	260	265	270	
Phe	Asn	Gly	Lys	Lys	Leu	Pro	Val	Asn	Gly	Phe	Arg	Ser	Tyr	Val	Asp	275	280	285	
Leu	Tyr	Val	Lys	Asp	Lys	Leu	Asp	Glu	Thr	Gly	Val	Ala	Leu	Lys	Val	290	295	300	
Ile	His	Glu	Leu	Ala	Asn	Glu	Arg	Trp	Asp	Val	Cys	Leu	Thr	Leu	Ser	305	310	315	320
Glu	Lys	Gly	Phe	Gln	Gln	Ile	Ser	Phe	Val	Asn	Ser	Ile	Ala	Thr	Thr	325	330	335	
Lys	Gly	Gly	Arg	His	Val	Asp	Tyr	Val	Val	Asp	Gln	Val	Val	Gly	Lys	340	345	350	
Leu	Ile	Glu	Val	Val	Lys	Lys	Lys	Asn	Lys	Ala	Gly	Val	Ser	Val	Lys	355	360	365	
Pro	Phe	Gln	Val	Lys	Asn	His	Ile	Trp	Val	Phe	Ile	Asn	Cys	Leu	Ile	370	375	380	
Glu	Asn	Pro	Thr	Phe	Asp	Ser	Gln	Thr	Lys	Glu	Asn	Met	Thr	Leu	Gln	385	390	395	400
Pro	Lys	Ser	Phe	Gly	Ser	Lys	Cys	Gln	Leu	Ser	Glu	Lys	Phe	Phe	Lys	405	410	415	
Ala	Ala	Ser	Asn	Cys	Gly	Ile	Val	Glu	Ser	Ile	Leu	Asn	Trp	Val	Lys	420	425	430	
Phe	Lys	Ala	Gln	Thr	Gln	Leu	Asn	Lys	Lys	Cys	Ser	Ser	Val	Lys	Tyr	435	440	445	
Ser	Lys	Ile	Lys	Gly	Ile	Pro	Lys	Leu	Asp	Asp	Ala	Asn	Asp	Ala	Gly	450	455	460	
Gly	Lys	His	Ser	Leu	Glu	Cys	Thr	Leu	Ile	Leu	Thr	Glu	Gly	Asp	Ser	465	470	475	480
Ala	Lys	Ser	Leu	Ala	Val	Ser	Gly	Leu	Gly	Val	Ile	Gly	Arg	Asp	Arg	485	490	495	
Tyr	Gly	Val	Phe	Pro	Leu	Arg	Gly	Lys	Ile	Leu	Asn	Val	Arg	Glu	Ala				

500					505					510					
Ser	His	Lys	Gln	Ile	Met	Glu	Asn	Ala	Glu	Ile	Asn	Asn	Ile	Ile	Lys
515					520					525					
Ile	Val	Gly	Leu	Gln	Tyr	Lys	Lys	Ser	Tyr	Asp	Asp	Ala	Gln	Ser	Leu
530					535					540					
Lys	Thr	Leu	Arg	Tyr	Gly	Lys	Ile	Met	Ile	Met	Thr	Asp	Gln	Asp	Gln
545					550					555					
Asp	Gly	Ser	His	Ile	Lys	Gly	Leu	Leu	Ile	Asn	Phe	Ile	His	His	Asn
565					570					575					
Trp	Pro	Ser	Leu	Leu	Lys	His	Gly	Phe	Leu	Glu	Glu	Phe	Ile	Thr	Pro
580					585					590					
Ile	Val	Lys	Ala	Ser	Lys	Asn	Lys	Gln	Glu	Leu	Ser	Phe	Tyr	Ser	Ile
595					600					605					
Pro	Glu	Phe	Asp	Glu	Trp	Lys	Lys	His	Ile	Glu	Asn	Gln	Lys	Ala	Trp
610					615					620					
Lys	Ile	Lys	Tyr	Tyr	Lys	Gly	Leu	Gly	Thr	Ser	Thr	Ala	Lys	Glu	Ala
625					630					635					
Lys	Glu	Tyr	Phe	Ala	Asp	Met	Glu	Arg	His	Arg	Ile	Leu	Phe	Arg	Tyr
645					650					655					
Ala	Gly	Pro	Glu	Asp	Asp	Ala	Ala	Ile	Thr	Leu	Ala	Phe	Ser	Lys	Lys
660					665					670					
Lys	Ile	Asp	Asp	Arg	Lys	Glu	Trp	Leu	Thr	Asn	Phe	Met	Glu	Asp	Arg
675					680					685					
Arg	Gln	Arg	Arg	Leu	His	Gly	Leu	Pro	Glu	Gln	Phe	Leu	Tyr	Gly	Thr
690					695					700					
Ala	Thr	Lys	His	Leu	Thr	Tyr	Asn	Asp	Phe	Ile	Asn	Lys	Glu	Leu	Ile
705					710					715					
Leu	Phe	Ser	Asn	Ser	Asp	Asn	Glu	Arg	Ser	Ile	Pro	Ser	Leu	Val	Asp
725					730					735					
Gly	Phe	Lys	Pro	Gly	Gln	Arg	Lys	Val	Leu	Phe	Thr	Cys	Phe	Lys	Arg
740					745					750					
Asn	Asp	Lys	Arg	Glu	Val	Lys	Val	Ala	Gln	Leu	Ala	Gly	Ser	Val	Ala
755					760					765					
Glu	Met	Ser	Ala	Tyr	His	His	Gly	Glu	Gln	Ala	Leu	Met	Met	Thr	Ile
770					775					780					
Val	Asn	Leu	Ala	Gln	Asn	Phe	Val	Gly	Ser	Asn	Asn	Ile	Asn	Leu	Leu
785					790					795					
Gln	Pro	Ile	Gly	Gln	Phe	Gly	Thr	Arg	Leu	His	Gly	Gly	Lys	Asp	Ala
805					810					815					
Ala	Ser	Pro	Arg	Tyr	Ile	Phe	Thr	Met	Leu	Ser	Thr	Leu	Ala	Arg	Leu
820					825					830					
Leu	Phe	Pro	Ala	Val	Asp	Asp	Asn	Leu	Leu	Lys	Phe	Leu	Tyr	Asp	Asp
835					840					845					
Asn	Gln	Arg	Val	Glu	Pro	Glu	Trp	Tyr	Ile	Pro	Ile	Ile	Pro	Met	Val
850					855					860					
Leu	Ile	Asn	Gly	Ala	Glu	Gly	Ile	Gly	Thr	Gly	Trp	Ala	Cys	Lys	Leu
865					870					875					
Pro	Asn	Tyr	Asp	Ala	Arg	Glu	Ile	Val	Asn	Asn	Val	Arg	Arg	Met	Leu
885					890					895					
Asp	Gly	Leu	Asp	Pro	His	Pro	Met	Leu	Pro	Asn	Tyr	Lys	Asn	Phe	Lys
900					905					910					
Gly	Thr	Ile	Gln	Glu	Leu	Gly	Gln	Asn	Gln	Tyr	Ala	Val	Ser	Gly	Glu
915					920					925					
Ile	Phe	Val	Val	Asp	Arg	Asn	Thr	Val	Glu	Ile	Thr	Glu	Leu	Pro	Val
930					935					940					
Arg	Thr	Trp	Thr	Gln	Val	Tyr	Lys	Glu	Gln	Val	Leu	Glu	Pro	Met	Leu
945					950					955					
Asn	Gly	Thr	Asp	Lys	Thr	Pro	Ala	Leu	Ile	Ser	Asp	Tyr	Lys	Glu	Tyr
965					970					975					
His	Thr	Asp	Thr	Thr	Val	Lys	Phe	Val	Val	Lys	Met	Thr	Glu	Glu	Lys
980					985					990					
Leu	Ala	Gln	Ala	Glu	Ala	Ala	Gly	Leu	His	Lys	Val	Phe	Lys	Leu	Gln
995					1000					1005					
Thr	Thr	Leu	Thr	Cys	Asn	Ser	Met	Val	Leu	Phe	Asp	His	Met	Gly	Cys

```

1010          1015          1020
Leu Lys Lys Tyr Glu Thr Val Gln Asp Ile Leu Lys Glu Phe Phe Asp
1025          1030          1035          1040
Leu Arg Leu Ser Tyr Tyr Gly Leu Arg Lys Glu Trp Leu Val Gly Met
          1045          1050          1055
Leu Gly Ala Glu Phe Thr Lys Leu Asn Asn Gln Ala Arg Phe Ile Leu
          1060          1065          1070
Glu Lys Ile Gln Gly Lys Ile Thr Ile Xaa Asn Arg Ser Lys Lys Asp
          1075          1080          1085
Leu Ile Gln Met Leu Val Gln Arg Gly Tyr Glu Ser Asp Pro Val Lys
- 1090          1095          1100
Ala Trp Lys Glu Ala Gln Glu Lys Ala Ala Glu Glu Asp Glu Thr Gln
1105          1110          1115          1120
Asn Gln His Asp Asp Ser Ser Ser Asp Ser Gly Thr Pro Ser Gly Pro
          1125          1130          1135
Asp Phe Asn Tyr Ile Leu Asn Met Ser Leu Trp Ser Leu Thr Lys Glu
          1140          1145          1150
Lys Val Glu Glu Leu Ile Lys Gln Arg Asp Ala Lys Gly Arg Glu Val
          1155          1160          1165
Asn Asp Leu Lys Arg Lys Ser Pro Ser Asp Leu Trp Lys Glu Asp Leu
          1170          1175          1180
Ala Ala Phe Val Glu Glu Leu Asp Lys Val Glu Ser Gln Glu Arg Glu
1185          1190          1195          1200
Asp Val Leu Ala Gly Met Ser Gly Lys Ala Ile Lys Gly Lys Val Gly
          1205          1210          1215
Lys Pro Lys Val Lys Lys Leu Gln Leu Glu Glu Thr Met Pro Ser Pro
          1220          1225          1230
Tyr Gly Arg Arg Ile Ile Pro Glu Ile Thr Ala Met Lys Ala Asp Ala
          1235          1240          1245
Ser Lys Lys Leu Leu Lys Lys Lys Gly Asp Leu Asp Thr Ala Ala
          1250          1255          1260
Val Lys Val Glu Phe Asp Glu Glu Phe Ser Gly Ala Pro Val Glu Gly
1265          1270          1275          1280
Ala Gly Glu Glu Ala Leu Thr Pro Ser Val Pro Ile Asn Lys Gly Pro
          1285          1290          1295
Lys Pro Lys Arg Glu Lys Lys Glu Pro Gly Thr Arg Val Arg Lys Thr
          1300          1305          1310
Pro Thr Ser Ser Gly Lys Pro Ser Ala Lys Lys Val Lys Lys Arg Asn
          1315          1320          1325
Pro Trp Ser Asp Asp Glu Ser Lys Ser Glu Ser Asp Leu Glu Glu Thr
          1330          1335          1340
Glu Pro Val Val Ile Pro Arg Asp Ser Leu Leu Arg Arg Ala Ala Ala
1345          1350          1355          1360
Glu Arg Pro Lys Tyr Thr Phe Asp Phe Ser Glu Glu Glu Asp Asp Asp
          1365          1370          1375
Ala Asp Asp Asp Asp Asp Asp Asn Asn Asp Leu Glu Glu Leu Lys Val
          1380          1385          1390
Lys Ala Ser Pro Ile Thr Asn Asp Gly Glu Asp Glu Phe Val Pro Ser
          1395          1400          1405
Asp Gly Leu Asp Lys Asp Glu Tyr Thr Phe Ser Pro Gly Lys Ser Lys
          1410          1415          1420
Ala Thr Pro Glu Lys Ser Leu His Asp Lys Lys Ser Gln Asp Phe Gly
1425          1430          1435          1440
Asn Leu Phe Ser Phe Pro Ser Tyr Ser Gln Lys Ser Glu Asp Asp Ser
          1445          1450          1455
Ala Lys Phe Asp Ser Asn Glu Glu Asp Ser Ala Ser Val Phe Ser Pro
          1460          1465          1470
Ser Phe Gly Leu Lys Gln Thr Asp Lys Val Pro Ser Lys Thr Val Ala
          1475          1480          1485
Ala Lys Lys Gly Lys Pro Ser Ser Asp Thr Val Pro Lys Pro Lys Arg
          1490          1495          1500
Ala Pro Lys Gln Lys Lys Val Val Glu Ala Val Asn Ser Asp Ser Asp
1505          1510          1515          1520
Ser Glu Phe Gly Ile Pro Lys Lys Thr Thr Thr Pro Lys Gly Lys Gly

```

```

                1525                1530                1535
Arg Gly Ala Lys Lys Arg Lys Ala Ser Gly Ser Glu Asn Glu Gly Asp
                1540                1545                1550
Tyr Asn Pro Gly Arg Lys Thr Ser Lys Thr Thr Ser Lys Lys Pro Lys
                1555                1560                1565
Lys Thr Ser Phe Asp Gln Asp Ser Asp Val Asp Ile Phe Pro Ser Asp
                1570                1575                1580
Phe Pro Thr Glu Pro Pro Ser Leu Pro Arg Thr Gly Arg Ala Arg Lys
1585                1590                1595                1600
Glu Val Lys Tyr Phe Ala Glu Ser Asp Glu Glu Glu Asp Asp Val Asp
                1605                1610                1615
Phe Ala Met Phe Asn
                1620 1621

```

```

<210> 1162
<211> 73
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(73)
<223> X = any amino acid or stop code

```

```

<400> 1162
Lys Gly Cys Leu Ala Ala Ser Phe Asn Cys Ile Phe Leu Tyr Thr Gly
 1                5                10                15
Glu Leu Tyr Pro Thr Met Ile Arg Xaa Val Glu Ala Xaa Trp Glu Asn
                20                25                30
Asp Ser Leu Phe Leu Gly Lys Asp Ile Leu Leu Cys Thr Gly Gln Thr
                35                40                45
Pro Glu Leu Asn Gln Val His Pro Ser Pro Lys Ala Pro Pro Asn Thr
                50                55                60
His His Cys Lys Ala His Ser Ser His
 65                70                73

```

```

<210> 1163
<211> 336
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1163
Glu Asn Ser Phe Glu Cys Lys Asp Cys Gly Lys Ala Phe Ser Arg Gly
 1                5                10                15
Tyr Gln Leu Ser His His Gln Lys Ile His Thr Gly Glu Lys Pro Tyr
                20                25                30
Glu Cys Lys Glu Cys Lys Lys Ala Phe Arg Trp Gly Asn Gln Leu Thr
                35                40                45
Gln His Gln Lys Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Asp
                50                55                60
Cys Gly Lys Ala Phe Arg Trp Gly Ser Ser Leu Val Ile His Lys Arg
 65                70                75                80
Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Asp Cys Gly Lys Ala
                85                90                95

```

```

Phe Arg Arg Gly Asp Glu Leu Thr Gln His Gln Arg Phe His Thr Gly
      100      105      110
Glu Lys Asp Tyr Glu Cys Lys Asp Cys Gly Lys Thr Phe Ser Arg Val
      115      120      125
Tyr Lys Leu Ile Gln His Lys Arg Ile His Ser Gly Glu Lys Pro Tyr
      130      135      140
Glu Cys Lys Asp Cys Gly Lys Ala Phe Ile Cys Gly Ser Ser Leu Ile
145      150      155      160
Gln His Lys Arg Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Gln Glu
      165      170      175
Cys Gly Lys Ala Phe Thr Arg Val Asn Tyr Leu Thr Gln His Gln Lys
      180      185      190
Ile His Thr Gly Glu Lys Pro His Glu Cys Lys Glu Cys Gly Lys Ala
      195      200      205
Phe Arg Trp Gly Ser Ser Leu Val Lys His Glu Arg Ile His Thr Gly
      210      215      220
Glu Lys Pro Tyr Lys Cys Thr Glu Cys Gly Lys Ala Phe Asn Cys Gly
225      230      235      240
Tyr His Leu Thr Gln His Glu Arg Ile His Thr Gly Glu Thr Pro Tyr
      245      250      255
Lys Cys Lys Glu Cys Gly Lys Ala Phe Ile Tyr Gly Ser Ser Leu Val
      260      265      270
Lys His Glu Arg Ile His Thr Gly Val Lys Pro Tyr Gly Cys Thr Glu
      275      280      285
Cys Gly Lys Ser Phe Ser His Gly His Gln Leu Thr Gln His Gln Lys
      290      295      300
Thr His Ser Gly Ala Lys Ser Tyr Glu Cys Lys Glu Cys Gly Lys Ala
305      310      315      320
Cys Asn His Leu Asn His Leu Arg Glu His Gln Arg Ile His Asn Ser
      325      330      335 336

```

&lt;210&gt; 1164

&lt;211&gt; 118

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(118)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1164

```

His Gln Tyr Leu Asp Asp Leu Tyr Pro Leu His Val Met Thr Ile Leu
  1      5      10      15
Leu Lys Ser His Phe Phe Thr Met Leu Lys Arg Pro Val Gly Ser Ser
      20      25      30
Ser Phe Ala Ser Leu Pro Phe Tyr His Gln Ser Ile Leu Leu Arg Lys
      35      40      45
Asn Gln Met Lys Arg Lys Lys Thr Gln Gln Asp Leu Thr His Ile Asn
      50      55      60
Trp Thr Leu Gln Ala Val Ser Ile Gln Thr Cys Ile Trp Leu Gln Lys
      65      70      75      80
Lys Pro Ser Ser Tyr Phe His Gln Leu Pro Asn Gln Val Leu Xaa Pro
      85      90      95
Glu Asn Ser Gly Pro Glu Ser Cys Leu Tyr Asp Leu Ala Ala Val Val
      100      105      110
Val His His Gly Ser Gly

```

115 118

<210> 1165  
 <211> 146  
 <212>Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(146)  
 <223> X = any amino acid or stop code

<400> 1165  
 Xaa Leu Asp Pro Asp Thr Leu Pro Ala Val Ala Thr Leu Leu Met Asp  
 1 5 10 15  
 Val Met Phe Tyr Ser Asn Gly Val Lys Asp Pro Met Ala Thr Gly Asp  
 20 25 30  
 Asp Cys Gly His Ile Arg Phe Phe Ser Phe Ser Leu Ile Glu Gly Tyr  
 35 40 45  
 Ile Ser Leu Val Met Asp Val Gln Thr Gln Gln Arg Phe Pro Ser Asn  
 50 55 60  
 Leu Leu Phe Thr Ser Ala Ser Gly Glu Leu Trp Lys Met Val Arg Ile  
 65 70 75 80  
 Gly Gly Gln Pro Leu Gly Phe Gly Pro Val Trp Glu Ser Gly Pro Thr  
 85 90 95  
 Gly Pro Thr Ser Pro Leu Ile Leu Pro Val Thr Pro Ser Ser Ser His  
 100 105 110  
 Arg Gln Ala Ala Ser Gln Val Thr Thr Lys Gln Gly Gln Trp Leu  
 115 120 125  
 Cys Leu Lys Arg Pro Ser Ala Arg Ser Pro Asp His Thr Ala Cys Leu  
 130 135 140  
 Gly \*  
 145

<210> 1166  
 <211> 84  
 <212>Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(84)  
 <223> X = any amino acid or stop code

<400> 1166  
 Glu Ala Pro Leu Thr Ser Val Cys Phe Ser Leu Glu Arg Arg Phe Gly  
 1 5 10 15  
 Ser Ser Ser Asn Thr Thr Ser Phe Gly Thr Leu Ala Ser Gln Asn Ala  
 20 25 30  
 Pro Thr Phe Gly Ser Leu Ser Gln Gln Thr Ser Gly Phe Gly Thr Gln  
 35 40 45  
 Ser Ser Gly Phe Ser Gly Phe Gly Ser Gly Thr Gly Gly Phe Ser Phe  
 50 55 60  
 Gly Ser Asn Asn Ser Xaa Val Ser Pro Phe Leu Ser Leu Thr Leu Ile

65  
Lys Ser Ile Lys  
84

70

75

80

<210> 1167  
<211> 112  
<212>Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(112)  
<223> X = any amino acid or stop code

<400> 1167  
Glu Glu Pro Gln Gly Ser Pro Ile Trp Val Trp Leu Ala Gly Ser Leu  
1 5 10 15  
Thr Ser Val Ser Cys Phe Leu Pro Phe Gln Arg Met Arg Ile Lys Pro  
20 25 30  
His Gln Gly Gln Tyr Ile Gly Glu Met Ser Phe Leu Gln His His Lys  
35 40 45  
Gly Glu Cys Arg Pro Gln Lys Asp Xaa Ala Arg Gln Glu Asn Pro Cys  
50 55 60  
Gly Pro Cys Ser Glu Arg Arg Lys His Leu Leu Gly Gln Asp Pro Lys  
65 70 75 80  
Thr Cys Lys Cys Ser Cys Lys Asn Thr Asp Ser Arg Cys Lys Ala Arg  
85 90 95  
Pro Leu Glu Leu Asn Glu Arg Thr Cys Arg Cys Asp Lys Pro Arg Arg  
100 105 110 112

<210> 1168  
<211> 319  
<212>Amino acid  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<222> (1)...(319)  
<223> X = any amino acid or stop code

<400> 1168  
Thr Leu Trp Ala Gly Pro Gly Leu Cys Pro Gln Ser His Ser Ser Ser  
1 5 10 15  
Ser Val Pro Ala Pro Trp Glu Pro His Val Glu Arg Ala Leu Arg Thr  
20 25 30  
Asp Arg Asn Gln Gly Gln Arg Pro Leu Leu Ser Ala Ser Trp Ala Pro  
35 40 45  
Ala Pro Ala Arg Pro Leu Phe Leu Thr Ser Pro Val Leu Leu Pro Lys  
50 55 60  
Ser Arg Ala Ile Pro Ala Ala Arg Asp Pro Ser Xaa Ala Gly Ile Phe  
65 70 75 80  
Cys Leu Leu Glu Met Ala Gly Gly Gln Ala Ser Val Val Ile Ile Gly

```
<210> 1169
<211> 96
<212> Amino acid
<213> Homo sapiens
```

```
<210> 1170
<211> 145
<212> Amino acid
<213> Homo sapiens
```

696



&lt;222&gt; (1)...(145)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1170

```

Asn Gly Thr Leu Phe Ile Met Val Met His Ile Lys Asp Leu Val Ser
 1           5           10           15
Asp Tyr Lys Glu Xaa Trp Leu Xaa Arg Lys Pro Leu Pro Trp Xaa Glu
          20           25           30
Ala Leu Leu Leu Arg Asp Cys Phe Phe Phe Xaa Val Thr Glu Asn Gly
          35           40           45
Ala Asp Pro Asn Pro Tyr Val Lys Thr Tyr Leu Leu Pro Asp Asn His
          50           55           60
Lys Thr Ser Lys Arg Lys Thr Lys Ile Ser Arg Lys Thr Arg Asn Pro
          65           70           75           80
Thr Phe Asn Glu Met Leu Val Tyr Ser Gly Tyr Ser Lys Glu Thr Leu
          85           90           95
Arg Gln Arg Glu Leu Gln Leu Ser Val Leu Ser Ala Glu Ser Leu Arg
          100          105          110
Glu Asn Phe Phe Leu Gly Gly Val Thr Leu Pro Leu Lys Asp Phe Asn
          115          120          125
Leu Ser Lys Glu Thr Val Lys Trp Tyr Gln Leu Thr Ala Ala Thr Tyr
          130          135          140
Leu
145

```

&lt;210&gt; 1171

&lt;211&gt; 464

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1171

```

Leu His Arg Ile Met Gln Leu Ala Val Val Val Ser Gln Val Leu Glu
 1           5           10           15
Asn Gly Ser Ser Val Leu Val Cys Leu Glu Glu Gly Trp Asp Ile Thr
          20           25           30
Ala Gln Val Thr Ser Leu Val Gln Leu Leu Ser Asp Pro Phe Tyr Arg
          35           40           45
Thr Leu Glu Gly Phe Gln Met Leu Val Glu Lys Glu Trp Leu Ser Phe
          50           55           60
Gly His Lys Phe Ser Gln Arg Ser Ser Leu Thr Leu Asn Cys Gln Gly
          65           70           75           80
Ser Gly Phe Ala Pro Val Phe Leu Gln Phe Leu Asp Cys Val His Gln
          85           90           95
Val His Asn Gln Tyr Pro Thr Glu Phe Glu Phe Asn Leu Tyr Tyr Leu
          100          105          110
Lys Phe Leu Ala Phe His Tyr Val Ser Asn Arg Phe Lys Thr Phe Leu
          115          120          125
Leu Asp Ser Asp Tyr Glu Arg Leu Glu His Gly Thr Leu Phe Asp Asp
          130          135          140
Lys Gly Glu Lys His Ala Lys Lys Gly Val Cys Ile Trp Glu Cys Ile
          145          150          155          160
Asp Arg Met His Lys Arg Ser Pro Ile Phe Phe Asn Tyr Leu Tyr Ser
          165          170          175
Pro Leu Glu Ile Glu Ala Leu Lys Pro Asn Val Asn Val Ser Ser Leu
          180          185          190

```

Lys Lys Trp Asp Tyr Tyr Ile Glu Glu Thr Leu Ser Thr Gly Pro Ser  
 195 200 205  
 Tyr Asp Trp Met Met Leu Thr Pro Lys His Phe Pro Ser Glu Asp Ser  
 210 215 220  
 Asp Leu Ala Gly Glu Ala Gly Pro Arg Ser Gln Arg Arg Thr Val Trp  
 225 230 235 240  
 Pro Cys Tyr Asp Asp Val Ser Cys Thr Gln Pro Asp Ala Leu Thr Ser  
 245 250 255  
 Leu Phe Ser Glu Ile Glu Lys Leu Glu His Lys Leu Asn Gln Ala Pro  
 260 265 270  
 Glu Lys Trp Gln Gln Leu Trp Glu Arg Val Thr Val Asp Leu Lys Glu  
 275 280 285  
 Glu Pro Arg Thr Asp Arg Ser Gln Arg His Leu Ser Arg Ser Pro Gly  
 290 295 300  
 Ile Val Ser Thr Asn Leu Pro Ser Tyr Gln Lys Arg Ser Leu Leu His  
 305 310 315 320  
 Leu Pro Asp Ser Ser Met Gly Glu Glu Gln Asn Ser Ser Ile Ser Pro  
 325 330 335  
 Ser Asn Gly Val Glu Arg Arg Ala Ala Thr Leu Tyr Ser Gln Tyr Thr  
 340 345 350  
 Ser Lys Asn Asp Glu Asn Arg Ser Phe Glu Gly Thr Leu Tyr Lys Arg  
 355 360 365  
 Gly Ala Leu Leu Lys Gly Trp Lys Pro Arg Trp Phe Val Leu Asp Val  
 370 375 380  
 Thr Lys His Gln Leu Arg Tyr Tyr Asp Ser Gly Glu Asp Thr Ser Cys  
 385 390 395 400  
 Lys Gly His Ile Asp Leu Ala Glu Val Glu Met Val Ile Pro Ala Gly  
 405 410 415  
 Pro Ser Met Gly Ala Pro Lys His Thr Ser Asp Lys Ala Phe Phe Asp  
 420 425 430  
 Leu Lys Thr Ser Lys Arg Val Tyr Asn Phe Cys Ala Gln Asp Gly Gln  
 435 440 445  
 Ser Ala Gln Gln Trp Met Asp Lys Ile Gln Ser Cys Ile Ser Asp Ala  
 450 455 460 464

&lt;210&gt; 1172

&lt;211&gt; 256

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1172

Glu Val Glu Gly Pro Arg Arg Val Ser Pro Ala Pro Glu Thr Leu Gly  
 1 5 10 15  
 Met Glu Glu Ser Val Val Arg Pro Ser Val Phe Val Val Asp Gly Gln  
 20 25 30  
 Thr Asp Ile Pro Phe Thr Arg Leu Gly Arg Ser His Arg Arg Gln Ser  
 35 40 45  
 Cys Ser Val Ala Arg Val Gly Leu Gly Leu Leu Leu Leu Leu Met Gly  
 50 55 60  
 Ala Gly Leu Ala Val Gln Gly Trp Phe Leu Leu Gln Leu His Trp Arg  
 65 70 75 80  
 Leu Gly Glu Met Val Thr Arg Leu Pro Asp Gly Pro Ala Gly Ser Trp  
 85 90 95  
 Glu Gln Leu Ile Gln Glu Arg Arg Ser His Glu Val Asn Pro Ala Ala  
 100 105 110  
 His Leu Thr Gly Ala Asn Ser Ser Leu Thr Gly Ser Gly Gly Pro Leu  
 115 120 125

```

Leu Trp Glu Thr Gln Leu Gly Leu Ala Phe Leu Arg Gly Leu Ser Tyr
 130                135                140
His Asp Gly Ala Leu Val Val Thr Lys Ala Gly Tyr Tyr Tyr Ile Tyr
145                150                155                160
Ser Lys Val Gln Leu Gly Gly Val Gly Cys Pro Leu Gly Leu Ala Ser
                165                170                175
Thr Ile Thr His Gly Leu Tyr Lys Arg Thr Pro Arg Tyr Pro Glu Glu
                180                185                190
Leu Glu Leu Leu Val Ser Gln Gln Ser Pro Cys Gly Arg Ala Thr Ser
                195                200                205
Ser Ser Arg Val Trp Trp Asp Ser Ser Phe Leu Gly Gly Val Val His
210                215                220
Leu Glu Ala Gly Glu Glu Val Val Val Arg Val Leu Asp Glu Arg Leu
225                230                235                240
Val Arg Leu Arg Asp Gly Thr Arg Ser Tyr Phe Gly Ala Phe Met Val
                245                250                255 256

```

&lt;210&gt; 1173

&lt;211&gt; 117

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(117)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1173

```

Gln Ser Ala Glu Leu Gly Pro Arg Arg Arg Glu Gly Ser Arg Arg Pro
 1                5                10                15
Ser Cys Thr Lys Ala Ser Lys Pro Trp Arg Arg Arg Pro Gly Gly Pro
                20                25                30
Thr Ser Gly Leu Gly Xaa Gly Pro Leu Ser Pro Gly Pro Tyr Gln Cys
                35                40                45
Arg Pro Ser Leu Pro Ala Gln Leu Tyr Pro Gln Ser Leu Met Ala Ala
 50                55                60
Ala Thr Leu Arg Thr Pro Thr Gln Val Ser Ala Ala Ser Ser Arg Pro
65                70                75                80
His Thr Pro Ser Pro Thr His Val Leu Lys Pro Ser Val Arg Gly Ala
                85                90                95
Cys Ser Ser Pro Arg Cys Pro Gly Ser Gly Thr Leu Arg Arg Ser Trp
                100                105                110
Val Gly Pro Phe Phe
                115                117

```

&lt;210&gt; 1174

&lt;211&gt; 370

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1174

```

Leu Trp Trp Pro Pro Leu Ser Arg His Ala Ala His Arg Gln Trp Pro

```

1 5 10 15  
 Gly Pro Thr Ala Pro Arg Gly Leu Gly His Lys Val Lys Gly Arg Gly  
 20 25 30  
 Ala Ser Pro Ala Ala Met Trp Ser Cys Ser Trp Phe Asn Gly Thr Gly  
 35 40 45  
 Leu Val Glu Glu Leu Pro Ala Cys Gln Asp Leu Gln Leu Gly Leu Ser  
 50 55 60  
 Leu Leu Ser Leu Leu Gly Leu Val Val Gly Val Pro Val Gly Leu Cys  
 65 70 75 80  
 Tyr Asn Ala Leu Leu Val Leu Ala Asn Leu His Ser Lys Ala Ser Met  
 85 90 95  
 Thr Met Pro Asp Val Tyr Phe Val Asn Met Ala Val Ala Gly Leu Val  
 100 105 110  
 Leu Ser Ala Leu Ala Pro Val His Leu Leu Gly Pro Pro Ser Ser Arg  
 115 120 125  
 Trp Ala Leu Trp Ser Val Gly Gly Glu Val His Val Ala Leu Gln Ile  
 130 135 140  
 Pro Phe Asn Val Ser Ser Leu Val Ala Met Tyr Ser Thr Ala Leu Leu  
 145 150 155 160  
 Ser Leu Asp His Tyr Ile Glu Arg Ala Leu Pro Arg Thr Tyr Met Ala  
 165 170 175  
 Ser Val Tyr Asn Thr Arg His Val Cys Gly Phe Val Trp Gly Gly Ala  
 180 185 190  
 Leu Leu Thr Ser Phe Ser Ser Leu Leu Phe Tyr Ile Cys Ser His Val  
 195 200 205  
 Ser Thr Arg Ala Leu Glu Cys Ala Lys Met Gln Asn Ala Glu Ala Ala  
 210 215 220  
 Asp Ala Thr Leu Val Phe Ile Gly Tyr Val Val Pro Ala Leu Ala Thr  
 225 230 235 240  
 Leu Tyr Ala Leu Val Leu Leu Ser Arg Val Arg Arg Glu Asp Thr Pro  
 245 250 255  
 Leu Asp Arg Asp Thr Gly Arg Leu Glu Pro Ser Ala His Arg Leu Leu  
 260 265 270  
 Val Ala Thr Val Cys Thr Gln Phe Gly Leu Trp Thr Pro His Tyr Leu  
 275 280 285  
 Ile Leu Leu Gly His Thr Val Ile Ile Ser Arg Gly Lys Pro Val Asp  
 290 295 300  
 Ala His Tyr Leu Gly Leu Leu His Phe Val Lys Asp Phe Ser Lys Leu  
 305 310 315 320  
 Leu Ala Phe Ser Ser Ser Phe Val Thr Pro Leu Leu Tyr Arg Tyr Met  
 325 330 335  
 Asn Gln Ser Phe Pro Ser Lys Leu Gln Arg Leu Met Lys Lys Leu Pro  
 340 345 350  
 Cys Gly Asp Arg His Cys Ser Pro Asp His Met Gly Val Gln Gln Val  
 355 360 365  
 Leu Ala  
 370

&lt;210&gt; 1175

&lt;211&gt; 145

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1175

Ser Glu Ser Glu Leu Phe Thr Leu Met Pro Ser Leu Pro Thr Thr Asn  
 1 5 10 15  
 Cys Val His Ser Leu Gln Met Ile Pro Pro Leu Ser Pro Ala Pro Asn  
 20 25 30  
 Gln Glu Leu Val Leu Gly Leu Cys Tyr Met Ser Tyr Leu Ala Phe Leu

```

      35              40              45
Tyr Met Thr Phe Asp Phe Cys Cys Leu Tyr Phe Ser Thr Val Tyr Ala
      50              55              60
Pro Ser Phe Lys Tyr Ile Cys Val His Thr Asp Thr His Ile Cys Val
      65              70              75              80
Cys Val Cys Ile Tyr Leu Ser Ser Val Val Ser Lys Ser Ser Ala Glu
      85              90              95
Ala Asp Gly Val Leu Gln Pro Arg Arg His Pro Ala Ser Leu Leu Ile
      100             105             110
Val Phe Ala Thr Ser Ile Ser Glu Ser Ser Leu Leu Ile Phe Ser Phe
      115             120             125
Gln Lys Thr Glu Ala Lys Leu Ile Val Phe Ala Val Ser Leu Ala Ala
      130             135             140
Lys
145

```

```

<210> 1176
<211> 50
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1176
Phe Phe Phe Leu Arg Gln Ser Leu Thr Leu Ser Pro Arg Leu Glu Cys
  1              5              10              15
Ser Gly Ala Thr Ser Ala Ser Pro Ser Ala Gly Ile Thr Gly Met Ser
      20              25              30
His His Ser Gln Pro Ile Val Asn Phe Leu Arg Ala Cys Ile Pro Ile
      35              40              45
Ser Lys
  50

```

```

<210> 1177
<211> 231
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1177
Arg Gln His Ala Glu Glu Arg Gly Arg Arg Asn Pro Lys Thr Gly Leu
  1              5              10              15
Thr Leu Glu Arg Val Gly Pro Glu Ser Ser Pro Tyr Leu Leu Arg Arg
      20              25              30
His Gln Arg Gln Gly Gln Glu Gly His Tyr His Ser Cys Val Gln
      35              40              45
Leu Ala Pro Thr Arg Gly Leu Glu Glu Ser Gly His Gly Pro Leu Ser
      50              55              60
Leu Ala Gly Gly Pro Arg Val Gly Gly Val Ala Ala Ala Ala Thr Glu
      65              70              75              80
Ala Pro Arg Met Glu Trp Lys Val Lys Val Arg Ser Asp Gly Thr Arg
      85              90              95
Tyr Val Ala Lys Arg Pro Val Arg Asp Arg Leu Leu Lys Ala Arg Ala
      100             105             110
Leu Lys Ile Arg Glu Glu Arg Ser Gly Met Thr Thr Asp Asp Ala
      115             120             125
Val Ser Glu Met Lys Met Gly Arg Tyr Trp Ser Lys Glu Glu Arg Lys

```

```

      130              135              140
Gln His Leu Ile Arg Ala Arg Glu Gln Arg Lys Arg Arg Glu Phe Met
145              150              155              160
Met Gln Ser Arg Leu Glu Cys Leu Arg Glu Gln Gln Asn Gly Asp Ser
      165              170              175
Lys Pro Glu Leu Asn Ile Ile Ala Leu Ser His Arg Lys Thr Met Lys
      180              185              190
Lys Arg Asn Lys Lys Ile Leu Asp Asn Trp Ile Thr Ile Gln Glu Met
      195              200              205
Leu Ala His Gly Ala Arg Ser Ala Asp Gly Lys Arg Val Tyr Asn Pro
      210              215              220
Leu Leu Ser Val Thr Thr Val
225              230 231

```

```

<210> 1178
<211> 204
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1178
Ser Asp Arg Gly Cys Ser Ala Ala Ala Gly Arg Asn Met Thr Ala Val
 1              5              10              15
Gly Val Gln Ala Gln Arg Pro Leu Gly Gln Arg Gln Pro Arg Arg Ser
      20              25              30
Phe Phe Glu Ser Phe Ile Arg Thr Leu Ile Ile Thr Cys Val Ala Leu
      35              40              45
Ala Val Val Leu Ser Ser Val Ser Ile Cys Asp Gly His Trp Leu Leu
      50              55              60
Ala Glu Asp Arg Leu Phe Gly Leu Trp His Phe Cys Thr Thr Thr Asn
      65              70              75              80
Gln Ser Val Pro Ile Cys Phe Arg Asp Leu Gly Gln Ala His Val Pro
      85              90              95
Gly Leu Ala Val Gly Met Gly Leu Val Arg Ser Val Gly Ala Leu Ala
      100              105              110
Val Val Ala Ala Ile Phe Gly Leu Glu Phe Leu Met Val Ser Gln Leu
      115              120              125
Cys Glu Asp Lys His Ser Gln Cys Lys Trp Val Met Gly Ser Ile Leu
      130              135              140
Leu Leu Val Ser Phe Val Leu Ser Ser Gly Gly Leu Leu Gly Phe Val
145              150              155              160
Ile Leu Leu Arg Asn Gln Val Thr Leu Ile Gly Phe Thr Leu Met Phe
      165              170              175
Trp Cys Glu Phe Thr Ala Ser Phe Leu Leu Phe Leu Asn Ala Ile Ser
      180              185              190
Gly Leu His Ile Asn Ser Ile Thr His Pro Trp Glu
      195              200              204

```

```

<210> 1179
<211> 179
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1179
Gln Ile Leu Pro Asn Leu Tyr Leu Gly Ser Ala Arg Asp Ser Ala Asn

```

```

1           5           10           15
Leu Glu Ser Leu Ala Lys Leu Gly Ile Arg Tyr Ile Leu Asn Val Thr
      20           25           30
Pro Asn Leu Pro Asn Phe Phe Glu Lys Asn Gly Asp Phe His Tyr Lys
      35           40           45
Gln Ile Pro Ile Ser Asp His Trp Ser Gln Asn Leu Ser Arg Phe Phe
      50           55           60
Pro Glu Ala Ile Glu Phe Ile Asp Glu Ala Leu Ser Gln Asn Cys Gly
      65           70           75           80
Val Leu Val His Cys Leu Ala Gly Val Ser Arg Ser Val Thr Val Thr
      85           90           95
Val Ala Tyr Leu Met Gln Lys Leu His Leu Ser Leu Asn Asp Ala Tyr
      100           105           110
Asp Leu Val Lys Arg Lys Lys Ser Asn Ile Ser Pro Asn Phe Asn Phe
      115           120           125
Met Gly Gln Leu Leu Asp Phe Glu Arg Ser Leu Arg Leu Glu Glu Arg
      130           135           140
His Ser Gln Glu Gln Gly Ser Gly Gly Gln Ala Ser Ala Ala Ser Asn
      145           150           155           160
Pro Pro Ser Phe Phe Thr Thr Pro Thr Ser Asp Gly Ala Phe Glu Leu
      165           170           175
Ala Pro Thr
      179

```

```

<210> 1180
<211> 159
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1180
Arg Lys Ser Leu His Glu Asn Lys Leu Lys Arg Leu Gln Glu Lys Val
1           5           10           15
Glu Val Leu Glu Ala Lys Lys Glu Glu Leu Glu Thr Glu Asn Gln Val
      20           25           30
Leu Asn Arg Gln Asn Val Pro Phe Glu Asp Tyr Thr Arg Leu Gln Lys
      35           40           45
Arg Leu Lys Asp Ile Gln Arg Arg His Asn Glu Phe Arg Ser Leu Ile
      50           55           60
Leu Val Pro Asn Met Pro Thr Ala Ser Ile Asn Pro Val Ser Phe
      65           70           75           80
Gln Ser Ser Ala Met Gly Ser Lys His Gly Thr Thr Ile Ser Ser Ser
      85           90           95
Tyr Ala Gly Gly Thr Thr Ser Lys Gly Thr Leu Ser Thr Ser Gln Lys
      100           105           110
Thr Arg Arg Thr Gly Asn Asn Thr Lys Lys Thr Thr Arg Gly Thr Trp
      115           120           125
Ile Phe Arg Arg Met Met Phe Leu Glu Asn Arg Gln Ile Lys Arg Gly
      130           135           140
Glu Val Gly Asp Ser Val Lys Leu Asp Ile Leu Thr Cys Gly Ile
      145           150           155           159

```

```

<210> 1181
<211> 328
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

&lt;222&gt; (1)...(328)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1181

Gly Arg Pro Gly Ala Gly Ala Ser Glu Leu Phe Pro Ser Val Thr Thr  
 1 5 10 15  
 Asp Leu Ser Val Ser Lys Gln Asn Ala Cys Leu Thr Cys Val Asp Phe  
 20 25 30  
 Val Thr Val His Val Cys Met Gly Phe Trp Gly Ile Gly Pro Gly Ala  
 35 40 45  
 Leu Ser Thr Ser Cys Ile Pro Tyr Pro Leu Ser His Gly Pro Gly Ser  
 50 55 60  
 Val Lys Ala Glu Met Leu His Met Tyr Ser Gln Lys Asp Pro Leu Ile  
 65 70 75 80  
 Leu Cys Val Arg Leu Ala Val Leu Leu Ala Val Thr Leu Thr Val Pro  
 85 90 95  
 Val Val Leu Phe Pro Ile Arg Arg Ala Leu Gln Gln Leu Leu Phe Pro  
 100 105 110  
 Gly Lys Ala Phe Ser Trp Pro Arg His Val Ala Ile Ala Leu Ile Leu  
 115 120 125  
 Leu Val Leu Val Asn Val Leu Val Ile Cys Val Pro Thr Ile Arg Asp  
 130 135 140  
 Ile Phe Gly Val Ile Gly Ser Thr Ser Ala Pro Ser Leu Ile Phe Ile  
 145 150 155 160  
 Leu Pro Ser Ile Phe Tyr Leu Arg Ile Val Pro Ser Glu Val Glu Pro  
 165 170 175  
 Phe Leu Ser Trp Pro Lys Ile Gln Ala Leu Cys Phe Gly Val Leu Gly  
 180 185 190  
 Val Leu Phe Met Ala Val Ser Leu Gly Phe Met Phe Ala Asn Trp Ala  
 195 200 205  
 Thr Gly Gln Ser Arg Met Ser Gly His Xaa Ser Gly Pro Ala Gly Pro  
 210 215 220  
 Gly Pro Cys Ala His Ala His Gly Gly Val Arg Ala Ala Pro Xaa Gly  
 225 230 235 240  
 Pro Ser Cys Pro Thr Cys Gly Gly Gly Trp Phe Pro Xaa Thr Trp Leu  
 245 250 255  
 Ser Glu Ala Gly Asp Ser Arg Gly Cys Arg Leu Ala His Phe Pro Pro  
 260 265 270  
 Pro Gln Gly Cys Gln Ala Trp Ile Met Ala Leu Ile Pro Thr Pro Thr  
 275 280 285  
 Pro Trp Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu  
 290 295 300  
 Glu Glu Glu Glu Glu Glu Ala Arg Ser Trp Trp Ser Leu Cys Pro Ala  
 305 310 315 320  
 Gln Ser Ser Leu Pro Pro Pro Gly  
 325 328

&lt;210&gt; 1182

&lt;211&gt; 144

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1182

Ile Asn Glu Leu Arg Tyr His Leu Glu Glu Ser Arg Asp Lys Asn Val  
 1 5 10 15



```

Leu Leu Cys Leu Glu Glu Arg Asp Trp Asp Pro Gly Leu Ala Ile Ile
      20      25      30
Asp Asn Leu Met Gln Ser Ile Asn Gln Ser Lys Lys Thr Val Phe Val
      35      40      45
Leu Thr Lys Lys Tyr Ala Lys Ser Trp Asn Phe Lys Thr Ala Phe Tyr
      50      55      60
Leu Ala Leu Gln Arg Leu Met Asp Glu Asn Met Asp Val Ile Ile Phe
      65      70      75      80
Ile Leu Leu Glu Pro Val Leu Gln His Ser Gln Tyr Leu Arg Leu Arg
      85      90      95
Gln Arg Ile Cys Lys Ser Ser Ile Leu Gln Trp Pro Asp Asn Pro Lys
      100      105      110
Ala Glu Gly Leu Phe Trp Gln Thr Leu Arg Asn Val Val Leu Thr Glu
      115      120      125
Asn Asp Ser Arg Tyr Asn Asn Met Tyr Val Asp Ser Ile Lys Gln Tyr
      130      135      140      144

```

&lt;210&gt; 1183

&lt;211&gt; 484

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1183'

```

Asp Asp Pro Ile Lys Thr Ser Trp Thr Pro Pro Arg Tyr Val Leu Ser
 1      5      10      15
Met Ser Glu Glu Arg His Glu Arg Val Arg Lys Lys Tyr His Ile Leu
      20      25      30
Val Glu Gly Asp Gly Ile Pro Pro Pro Ile Lys Ser Phe Lys Glu Met
      35      40      45
Lys Phe Pro Ala Ala Ile Leu Arg Gly Leu Lys Lys Lys Gly Ile His
      50      55      60
His Pro Thr Pro Ile Gln Ile Gln Gly Ile Pro Thr Ile Leu Ser Gly
      65      70      75      80
Arg Asp Met Ile Gly Ile Ala Phe Thr Gly Ser Gly Lys Thr Leu Val
      85      90      95
Phe Thr Leu Pro Val Ile Met Phe Cys Leu Glu Gln Glu Lys Arg Leu
      100      105      110
Pro Phe Ser Lys Arg Glu Gly Pro Tyr Gly Leu Ile Ile Cys Pro Ser
      115      120      125
Arg Glu Leu Ala Arg Gln Thr His Gly Ile Leu Glu Tyr Tyr Cys Arg
      130      135      140
Leu Leu Gln Glu Asp Ser Ser Pro Leu Leu Arg Cys Ala Leu Cys Ile
145      150      155      160
Gly Gly Met Ser Val Lys Glu Gln Met Glu Thr Ile Arg His Gly Val
      165      170      175
His Met Met Val Ala Thr Pro Gly Arg Leu Met Asp Leu Leu Gln Lys
      180      185      190
Lys Met Val Ser Leu Asp Ile Cys Arg Tyr Leu Ala Leu Asp Glu Ala
      195      200      205
Asp Arg Met Ile Asp Met Gly Phe Glu Gly Asp Ile Arg Thr Ile Phe
      210      215      220
Ser Tyr Phe Lys Gly Gln Arg Gln Thr Leu Leu Phe Ser Ala Thr Met
225'      230      235      240
Pro Lys Lys Ile Gln Asn Phe Ala Lys Ser Ala Leu Val Lys Pro Val
      245      250      255
Thr Ile Asn Val Gly Arg Ala Gly Ala Ala Ser Leu Asp Val Ile Gln
      260      265      270

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Glu Val Glu Tyr Val Lys Glu Glu Ala Lys Met Val Tyr Leu Leu Glu  
           275                                  280                                  285  
 Cys Leu Gln Lys Thr Pro Pro Pro Val Leu Ile Phe Ala Glu Lys Lys  
           290                                  295                                  300  
 Ala Asp Val Asp Ala Ile His Glu Tyr Leu Leu Leu Lys Gly Val Glu  
           305                                  310                                  315                                  320  
 Ala Val Ala Ile His Gly Gly Lys Asp Gln Glu Glu Arg Thr Lys Ala  
                                   325                                  330                                  335  
 Ile Glu Ala Phe Arg Glu Gly Lys Lys Asp Val Leu Val Ala Thr Asp  
                                   340                                  345                                  350  
 Val Ala Ser Lys Gly Leu Asp Phe Pro Ala Ile Gln His Val Ile Asn  
                                   355                                  360                                  365  
 Tyr Asp Met Pro Glu Glu Ile Glu Asn Tyr Val His Arg Ile Gly Arg  
           370                                  375                                  380  
 Thr Gly Arg Ser Gly Asn Thr Gly Ile Ala Thr Thr Phe Ile Asn Lys  
           385                                  390                                  395                                  400  
 Ala Cys Asp Glu Ser Val Leu Met Asp Leu Lys Ala Leu Leu Leu Glu  
                                   405                                  410                                  415  
 Ala Lys Gln Lys Val Pro Pro Val Leu Gln Val Leu His Cys Gly Asp  
                                   420                                  425                                  430  
 Glu Ser Met Leu Asp Ile Gly Gly Glu Arg Gly Cys Ala Phe Cys Gly  
                                   435                                  440                                  445  
 Gly Leu Gly His Arg Ile Thr Asp Cys Pro Lys Leu Glu Ala Met Gln  
           450                                  455                                  460  
 Thr Lys Gln Val Ser Asn Ile Gly Arg Lys Asp Tyr Leu Ala His Ser  
           465                                  470                                  475                                  480  
 Ser Met Asp Phe  
                                   484

<210> 1184  
 <211> 125  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1184  
 Ile Glu Thr Thr Gln Pro Ser Glu Asp Thr Asn Ala Asn Ser Gln Asp  
   1                                  5                                  10                                  15  
 Asn Ser Met Gln Pro Glu Thr Ser Ser Gln Gln Gln Leu Leu Ser Pro  
           20                                  25                                  30  
 Thr Leu Ser Asp Arg Gly Gly Ser Arg Gln Asp Ala Ala Asp Ala Gly  
           35                                  40                                  45  
 Lys Pro Gln Arg Lys Phe Gly Gln Trp Arg Leu Pro Ser Ala Pro Lys  
           50                                  55                                  60  
 Pro Ile Ser His Ser Val Ser Ser Val Asn Leu Arg Phe Gly Gly Arg  
           65                                  70                                  75                                  80  
 Thr Thr Met Lys Ser Val Val Cys Lys Met Asn Pro Met Thr Asp Ala  
                                   85                                  90                                  95  
 Ala Ser Cys Gly Ser Glu Val Lys Lys Trp Trp Thr Arg Gln Leu Thr  
           100                                  105                                  110  
 Val Glu Ser Asp Glu Ser Gly Asp Asp Leu Leu Asp Ile  
           115                                  120                                  125

<210> 1185  
 <211> 73  
 <212> Amino acid  
 <213> Homo sapiens

&lt;400&gt; 1185

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Asn Asp Arg Phe Ser Ala Cys Tyr Phe Thr Leu Lys Leu Lys Glu Ala
 1          5          10          15
Ala Val Arg Gln Arg Glu Ala Leu Lys Lys Leu Thr Lys Asn Ile Ala
          20          25          30
Thr Asp Ser Tyr Ile Ser Val Asn Leu Arg Asp Val Tyr Ala Arg Ser
          35          40          45
Ile Met Glu Met Leu Arg Leu Lys Gly Arg Glu Arg Ala Ser Thr Arg
          50          55          60
Ser Ser Gly Gly Asp Asp Phe Trp Phe
65          70          73

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&lt;210&gt; 1186

&lt;211&gt; 343

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1186

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Phe Thr Val Phe Ile Leu Gly Ile Thr Ile Arg Pro Leu Val Glu Phe
 1          5          10          15
Leu Asp Val Lys Arg Ser Asn Lys Lys Gln Gln Ala Val Ser Glu Glu
          20          25          30
Ile Tyr Cys Arg Leu Phe Asp His Val Lys Thr Gly Ile Glu Asp Val
          35          40          45
Cys Gly His Trp Gly His Asn Phe Trp Arg Asp Lys Phe Lys Lys Phe
          50          55          60
Asp Asp Lys Tyr Leu Arg Lys Leu Leu Ile Arg Glu Asn Gln Pro Lys
65          70          75          80
Ser Ser Ile Val Ser Leu Tyr Lys Lys Leu Glu Ile Lys His Ala Ile
          85          90          95
Glu Met Ala Glu Thr Gly Met Ile Ser Thr Val Pro Thr Phe Ala Ser
          100          105          110
Leu Asn Asp Cys Arg Glu Glu Lys Ile Arg Lys Val Thr Ser Ser Glu
          115          120          125
Thr Asp Glu Ile Arg Glu Leu Leu Ser Arg Asn Leu Tyr Gln Ile Arg
          130          135          140
Gln Arg Thr Leu Ser Tyr Asn Arg His Ser Leu Thr Ala Asp Thr Ser
145          150          155          160
Glu Arg Gln Ala Lys Glu Ile Leu Ile Arg Arg Arg His Ser Leu Arg
          165          170          175
Glu Ser Ile Arg Lys Asp Ser Ser Leu Asn Arg Glu His Arg Ala Ser
          180          185          190
Thr Ser Thr Ser Arg Tyr Leu Ser Leu Pro Lys Asn Thr Lys Leu Pro
          195          200          205
Glu Lys Leu Gln Lys Arg Arg Thr Ile Ser Ile Ala Asp Gly Asn Ser
          210          215          220
Ser Asp Ser Asp Ala Asp Ala Gly Thr Thr Val Leu Asn Leu Gln Pro
225          230          235          240
Arg Ala Arg Arg Phe Leu Pro Glu Gln Phe Ser Lys Lys Ser Pro Gln
          245          250          255
Ser Tyr Lys Met Glu Trp Lys Asn Glu Val Asp Val Asp Ser Gly Arg
          260          265          270
Asp Met Pro Ser Thr Pro Pro Thr Pro His Ser Arg Glu Lys Gly Thr
          275          280          285
Gln Thr Ser Gly Leu Leu Gln Gln Pro Leu Leu Ser Lys Asp Gln Ser
290          295          300

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Gly Ser Glu Arg Glu Asp Ser Leu Thr Glu Gly Ile Pro Pro Lys Pro  
 305 310 315 320  
 Pro Pro Arg Leu Val Trp Arg Ala Ser Glu Pro Gly Ser Arg Lys Ala  
 325 330 335  
 Arg Phe Gly Ser Glu Lys Pro  
 340 343

<210> 1187  
 <211> 146  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1187  
 His Glu Glu Ala Ser Gly Leu Ser Val Trp Met Gly Lys Gln Met Glu  
 1 5 10 15  
 Pro Leu His Ala Val Pro Pro Ala Ala Ile Thr Leu Ile Leu Ser Leu  
 20 25 30  
 Leu Val Ala Val Phe Thr Glu Cys Thr Ser Asn Val Ala Thr Thr Thr  
 35 40 45  
 Leu Phe Leu Pro Ile Phe Ala Ser Met Ser Arg Ser Ile Gly Leu Asn  
 50 55 60  
 Pro Leu Tyr Ile Met Leu Pro Cys Thr Leu Ser Ala Ser Phe Ala Phe  
 65 70 75 80  
 Met Leu Pro Val Ala Thr Pro Pro Asn Ala Ile Val Phe Thr Tyr Gly  
 85 90 95  
 His Leu Lys Val Ala Asp Met Val Lys Thr Gly Val Ile Met Asn Ile  
 100 105 110  
 Ile Gly Val Phe Cys Val Phe Leu Ala Val Asn Thr Trp Gly Arg Ala  
 115 120 125  
 Ile Phe Asp Leu Asp His Phe Pro Asp Trp Ala Asn Val Thr His Ile  
 130 135 140  
 Glu Thr  
 145 146

<210> 1188  
 <211> 40  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1188  
 His Glu Leu Glu Asn Asn Trp Leu Gln His Glu Lys Ala Pro Thr Glu  
 1 5 10 15  
 Glu Gly Lys Lys Glu Leu Leu Ala Leu Ser Asn Ala Asn Pro Ser Leu  
 20 25 30  
 Leu Glu Arg His Cys Ala Tyr Leu  
 35 40

<210> 1189  
 <211> 62  
 <212> Amino acid  
 <213> Homo sapiens

&lt;400&gt; 1189

```

Gly Asn Ile Ile Tyr Met Tyr Met Gln Pro Gly Ala Arg Ser Ser Gln
 1           5           10           15
Asp Gln Gly Lys Phe Leu Thr Leu Phe Tyr Asn Ile Val Thr Pro Leu
          20           25           30
Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Arg Glu Val Lys Gly Ala
          35           40           45
Leu Gly Arg Leu Leu Leu Gly Lys Arg Glu Leu Gly Lys Glu
          50           55           60           62

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&lt;210&gt; 1190

&lt;211&gt; 623

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1190

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Pro Leu Glu Gln Arg Ser Asn Cys Arg Val Asp Pro Arg Val Arg Thr
 1           5           10           15
His Thr Met Ala Ser Asp Thr Ser Ser Leu Val Gln Ser His Thr Tyr
          20           25           30
Lys Lys Arg Glu Pro Ala Asp Val Pro Tyr Gln Thr Gly Gln Leu His
          35           40           45
Pro Ala Ile Arg Val Ala Asp Leu Leu Gln His Ile Thr Gln Met Lys
          50           55           60
Cys Ala Glu Gly Tyr Gly Phe Lys Glu Glu Tyr Glu Ser Phe Phe Glu
          65           70           75           80
Gly Gln Ser Ala Pro Trp Asp Ser Ala Lys Lys Asp Glu Asn Arg Met
          85           90           95
Lys Asn Arg Tyr Gly Asn Ile Ile Ala Tyr Asp His Ser Arg Val Arg
          100          105          110
Leu Gln Thr Ile Glu Gly Asp Thr Asn Ser Asp Tyr Ile Asn Gly Asn
          115          120          125
Tyr Ile Asp Gly Tyr His Arg Pro Asn His Tyr Ile Ala Thr Gln Gly
          130          135          140
Pro Met Gln Glu Thr Ile Tyr Asp Phe Trp Arg Met Val Trp His Glu
          145          150          155          160
Asn Thr Ala Ser Ile Ile Met Val Thr Asn Leu Val Glu Val Gly Arg
          165          170          175
Val Lys Cys Cys Lys Tyr Trp Pro Asp Asp Thr Glu Ile Tyr Lys Asp
          180          185          190
Ile Lys Val Thr Leu Ile Glu Thr Glu Leu Leu Ala Glu Tyr Val Ile
          195          200          205
Arg Thr Phe Ala Val Glu Lys Arg Gly Val His Glu Ile Arg Glu Ile
          210          215          220
Arg Gln Phe His Phe Thr Gly Trp Pro Asp His Gly Val Pro Tyr His
          225          230          235          240
Ala Thr Gly Leu Leu Gly Phe Val Arg Gln Val Lys Ser Lys Ser Pro
          245          250          255
Pro Ser Ala Gly Pro Leu Val Val His Cys Ser Ala Gly Ala Gly Arg
          260          265          270
Thr Gly Cys Phe Ile Val Ile Asp Ile Met Leu Asp Met Ala Glu Arg
          275          280          285
Glu Gly Val Val Asp Ile Tyr Asn Cys Val Arg Glu Leu Arg Ser Arg
          290          295          300
Arg Val Asn Met Val Gln Thr Glu Glu Gln Tyr Val Phe Ile His Asp
          305          310          315          320

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Ala Ile Leu Glu Ala Cys Leu Cys Gly Asp Thr Ser Val Pro Ala Ser  
 325 330 335  
 Gln Val Arg Ser Leu Tyr Tyr Asp Met Asn Lys Leu Asp Pro Gln Thr  
 340 345 350  
 Asn Ser Ser Gln Ile Lys Glu Glu Phe Arg Thr Leu Asn Met Val Thr  
 355 360 365  
 Pro Thr Leu Arg Val Glu Asp Cys Ser Ile Ala Leu Leu Pro Arg Asn  
 370 375 380  
 His Glu Lys Asn Arg Cys Met Asp Ile Leu Pro Pro Asp Arg Cys Leu  
 385 390 395 400  
 Pro Phe Leu Ile Thr Ile Asp Gly Glu Ser Asn Tyr Ile Asn Ala  
 405 410 415  
 Ala Leu Met Asp Ser Tyr Lys Gln Pro Ser Ala Phe Ile Val Thr Gln  
 420 425 430  
 His Pro Leu Pro Asn Thr Val Lys Asp Phe Trp Arg Leu Val Leu Asp  
 435 440 445  
 Tyr His Cys Thr Ser Val Val Met Leu Asn Asp Val Asp Pro Ala Gln  
 450 455 460  
 Leu Cys Pro Gln Tyr Trp Pro Glu Asn Gly Val His Arg His Gly Pro  
 465 470 475 480  
 Ile Gln Val Glu Phe Val Ser Ala Asp Leu Glu Glu Asp Ile Ile Ser  
 485 490 495  
 Arg Ile Phe Arg Ile Tyr Asn Ala Ala Arg Pro Gln Asp Gly Tyr Arg  
 500 505 510  
 Met Val Gln Gln Phe Gln Phe Leu Gly Trp Pro Met Tyr Arg Asp Thr  
 515 520 525  
 Pro Val Ser Lys Arg Ser Phe Leu Lys Leu Ile Arg Gln Val Asp Lys  
 530 535 540  
 Trp Gln Glu Glu Tyr Asn Gly Gly Glu Gly Arg Thr Val Val His Cys  
 545 550 555 560  
 Leu Asn Gly Gly Gly Arg Ser Gly Thr Phe Cys Ala Ile Ser Ile Val  
 565 570 575  
 Cys Glu Met Leu Arg His Gln Arg Thr Val Asp Val Phe His Ala Val  
 580 585 590  
 Lys Thr Leu Arg Asn Asn Lys Pro Asn Met Val Asp Leu Leu Asp Gln  
 595 600 605  
 Tyr Lys Phe Cys Tyr Glu Val Ala Leu Glu Tyr Leu Asn Ser Gly  
 610 615 620 623

&lt;210&gt; 1191

&lt;211&gt; 86

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1191

Pro Leu Thr Tyr Asn Lys Lys Tyr Thr Tyr Pro Trp Trp Gly Asp Ala  
 1 5 10 15  
 Leu Gly Trp Leu Leu Ala Leu Ser Ser Met Val Cys Ile Pro Ala Trp  
 20 25 30  
 Ser Leu Tyr Arg Leu Gly Thr Leu Lys Gly Pro Phe Arg Glu Arg Ile  
 35 40 45  
 Arg Gln Leu Met Cys Pro Ala Glu Asp Leu Pro Gln Arg Asn Pro Ala  
 50 55 60  
 Gly Pro Ser Ala Pro Ala Thr Pro Arg Thr Ser Leu Leu Arg Leu Thr  
 65 70 75 80  
 Glu Leu Glu Ser His Cys  
 85 86

<210> 1192  
 <211> 109  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1192  
 Thr Leu Ser Glu Ser Gly Ala Leu Phe Ser Leu Gly Pro Pro Pro Leu  
 1 5 10 15  
 Ser Leu Lys Ser Ser Ser Ala Pro Arg Pro Tyr Ser Thr Leu Arg Asp  
 20 25 30  
 Cys Leu Glu His Phe Ala Glu Leu Phe Asp Leu Gly Phe Pro Asn Pro  
 35 40 45  
 Leu Ala Glu Arg Ile Ile Phe Glu Thr His Gln Ile His Phe Ala Asn  
 50 55 60  
 Cys Ser Leu Gly Gln Pro Thr Phe Ser Asp Pro Pro Glu Asp Val Leu  
 65 70 75 80  
 Leu Ala Met Ile Ile Ala Pro Ile Cys Leu Ile Pro Phe Leu Ile Thr  
 85 90 95  
 Leu Val Val Trp Arg Ser Lys Asp Ser Glu Ala Gln Ala  
 100 105 109

<210> 1193  
 <211> 257  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1193  
 Cys Glu Glu Arg Glu Gln Glu Lys Asp Asp Val Asp Val Ala Leu Leu  
 1 5 10 15  
 Pro Thr Ile Val Glu Lys Val Ile Leu Pro Lys Leu Thr Val Ile Ala  
 20 25 30  
 Glu Asn Met Trp Asp Pro Phe Ser Thr Thr Gln Thr Ser Arg Met Val  
 35 40 45  
 Gly Ile Thr Leu Lys Leu Ile Asn Gly Tyr Pro Ser Val Val Asn Ala  
 50 55 60  
 Glu Asn Lys Asn Thr Gln Val Tyr Leu Lys Ala Leu Leu Leu Arg Met  
 65 70 75 80  
 Arg Arg Thr Leu Asp Asp Asp Val Phe Met Pro Leu Tyr Pro Lys Asn  
 85 90 95  
 Val Leu Glu Asn Lys Asn Ser Gly Pro Tyr Leu Phe Phe Gln Arg Gln  
 100 105 110  
 Phe Trp Ser Ser Val Lys Leu Leu Gly Asn Phe Leu Gln Trp Tyr Gly  
 115 120 125  
 Ile Phe Ser Asn Lys Thr Leu Gln Glu Leu Ser Ile Asp Gly Leu Leu  
 130 135 140  
 Asn Arg Tyr Ile Leu Met Ala Phe Gln Asn Ser Glu Tyr Gly Asp Asp  
 145 150 155 160  
 Ser Ile Lys Lys Ala Gln Asn Val Ile Asn Cys Phe Pro Lys Gln Trp  
 165 170 175  
 Phe Met Asn Leu Lys Gly Glu Arg Thr Ile Ser Gln Leu Glu Asn Phe  
 180 185 190  
 Cys Arg Tyr Leu Val His Leu Ala Asp Thr Ile Tyr Arg Asn Ser Ile  
 195 200 205  
 Gly Cys Ser Asp Val Glu Lys Arg Asn Ala Arg Glu Asn Ile Lys Gln  
 210 215 220

Ile Val Lys Leu Leu Ala Ser Val Arg Ala Leu Asp His Ala Met Ser  
 225 230 235 240  
 Val Ala Ser Asp His Asn Val Lys Glu Phe Lys Ser Leu Ile Glu Gly  
 245 250 255  
 Lys  
 257

<210> 1194  
 <211> 416  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1194  
 Thr Pro Phe Cys Phe Leu Cys Ser Leu Val Phe Arg Ser Arg Val Trp  
 1 5 10 15  
 Ala Glu Pro Cys Leu Ile Asp Ala Ala Lys Glu Glu Tyr Asn Gly Val  
 20 25 30  
 Ile Glu Glu Phe Leu Ala Thr Gly Glu Lys Leu Phe Gly Pro Tyr Val  
 35 40 45  
 Trp Gly Arg Tyr Asp Leu Leu Phe Met Pro Pro Ser Phe Pro Phe Gly  
 50 55 60  
 Gly Met Glu Asn Pro Cys Leu Thr Phe Val Thr Pro Cys Leu Leu Ala  
 65 70 75 80  
 Gly Asp Arg Ser Leu Ala Asp Val Ile Ile His Glu Ile Ser His Ser  
 85 90 95  
 Trp Phe Gly Asn Leu Val Thr Asn Ala Asn Trp Gly Glu Phe Trp Leu  
 100 105 110  
 Asn Glu Gly Phe Thr Met Tyr Ala Gln Arg Arg Ile Ser Thr Ile Leu  
 115 120 125  
 Phe Gly Ala Ala Tyr Thr Cys Leu Glu Ala Ala Thr Gly Arg Ala Leu  
 130 135 140  
 Leu Arg Gln His Met Asp Ile Thr Gly Glu Glu Asn Pro Leu Asn Lys  
 145 150 155 160  
 Leu Arg Val Lys Ile Glu Pro Gly Val Asp Pro Asp Asp Thr Tyr Asn  
 165 170 175  
 Glu Thr Pro Tyr Glu Lys Gly Phe Cys Phe Val Ser Tyr Leu Ala His  
 180 185 190  
 Leu Val Gly Asp Gln Asp Gln Phe Asp Ser Phe Leu Lys Ala Tyr Val  
 195 200 205  
 His Glu Phe Lys Phe Arg Ser Ile Leu Ala Asp Asp Phe Leu Asp Phe  
 210 215 220  
 Tyr Leu Glu Tyr Phe Pro Glu Leu Lys Lys Lys Arg Val Asp Ile Ile  
 225 230 235 240  
 Pro Gly Phe Glu Phe Asp Arg Trp Leu Asn Thr Pro Gly Trp Pro Pro  
 245 250 255  
 Tyr Leu Pro Asp Leu Ser Pro Gly Asp Ser Leu Met Lys Pro Ala Glu  
 260 265 270  
 Glu Leu Ala Gln Leu Trp Ala Ala Glu Glu Leu Asp Met Lys Ala Ile  
 275 280 285  
 Glu Ala Val Ala Ile Ser Pro Trp Lys Thr Tyr Gln Leu Val Tyr Phe  
 290 295 300  
 Leu Asp Lys Ile Leu Gln Lys Ser Pro Leu Pro Pro Gly Asn Val Lys  
 305 310 315 320  
 Lys Leu Gly Asp Thr Tyr Pro Ser Ile Ser Asn Ala Arg Asn Ala Glu  
 325 330 335  
 Leu Arg Leu Arg Trp Gly Gln Ile Val Leu Lys Asn Asp His Gln Glu  
 340 345 350  
 Asp Phe Trp Lys Val Lys Glu Phe Leu His Asn Gln Gly Lys Gln Lys  
 355 360 365



Tyr Thr Leu Pro Leu Tyr His Ala Met Met Gly Gly Ser Glu Val Ala  
 370 375 380  
 Gln Thr Leu Ala Lys Glu Thr Phe Ala Ser Thr Ala Ser Gln Leu His  
 385 390 395 400  
 Ser Asn Val Val Asn Tyr Val Gln Gln Ile Val Ala Pro Lys Gly Ser  
 405 410 415 416

<210> 1195  
 <211> 295  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1195  
 Cys Ala Ser Gly Ser Ser Gly Trp Arg Pro Val Leu Trp Ala Gly Ala  
 1 5 10 15  
 Phe Thr Met Ala Ser Ala Glu Leu Asp Tyr Thr Ile Glu Ile Pro Asp  
 20 25 30  
 Gln Pro Cys Trp Ser Gln Lys Asn Ser Pro Ser Pro Gly Gly Lys Glu  
 35 40 45  
 Ala Glu Thr Arg Gln Pro Val Val Ile Leu Leu Gly Trp Gly Gly Cys  
 50 55 60  
 Lys Asp Lys Asn Leu Ala Lys Tyr Ser Ala Ile Tyr His Lys Arg Gly  
 65 70 75 80  
 Cys Ile Val Ile Arg Tyr Thr Ala Pro Trp His Met Val Phe Phe Ser  
 85 90 95  
 Glu Ser Leu Gly Ile Pro Ser Leu Arg Val Leu Ala Gln Lys Leu Leu  
 100 105 110  
 Glu Leu Leu Phe Asp Tyr Glu Ile Glu Lys Glu Pro Leu Leu Phe His  
 115 120 125  
 Val Phe Ser Asn Gly Gly Val Met Leu Tyr Arg Tyr Val Leu Glu Leu  
 130 135 140  
 Leu Gln Thr Arg Arg Phe Cys Arg Leu Arg Val Val Gly Thr Ile Phe  
 145 150 155 160  
 Asp Ser Ala Pro Gly Asp Ser Asn Leu Val Gly Ala Leu Arg Ala Leu  
 165 170 175  
 Ala Ala Ile Leu Glu Arg Arg Ala Ala Met Leu Arg Leu Leu Leu Leu  
 180 185 190  
 Val Ala Phe Ala Leu Val Val Val Leu Phe His Val Leu Leu Ala Pro  
 195 200 205  
 Ile Thr Ala Leu Phe His Thr His Phe Tyr Asp Arg Leu Gln Asp Ala  
 210 215 220  
 Gly Ser Arg Trp Pro Glu Leu Tyr Leu Tyr Ser Arg Ala Asp Glu Val  
 225 230 235 240  
 Val Leu Ala Arg Asp Ile Glu Arg Met Val Glu Ala Arg Leu Ala Arg  
 245 250 255  
 Arg Val Leu Ala Arg Ser Val Asp Phe Val Ser Ser Ala His Val Ser  
 260 265 270  
 His Leu Arg Asp Tyr Pro Thr Tyr Thr Ser Leu Cys Val Asp Phe  
 275 280 285  
 Met Arg Asn Trp Val Arg Cys  
 290 295

<210> 1196  
 <211> 97  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1196  
 Pro Arg Val Arg Asp Arg Leu Pro Ser Thr Gly Val Arg Asp Arg Lys  
 1 5 10 15  
 Gly Asp Lys Pro Trp Lys Glu Ser Gly Gly Ser Val Glu Ala Pro Arg  
 20 25 30  
 Met Gly Phe Thr His Pro Pro Gly His Leu Ser Gly Cys Gln Ser Ser  
 35 40 45  
 Leu Ala Ser Gly Glu Thr Gly Thr Gly Ser Ala Asp Pro Pro Gly Gly  
 50 55 60  
 Pro Arg Pro Gly Leu Thr Arg Arg Ala Pro Val Lys Asp Thr Pro Gly  
 65 70 75 80  
 Arg Ala Pro Ala Ala Asp Ala Ala Pro Ala Gly Pro Ser Ser Cys Leu  
 85 90 95  
 Gly  
 97

<210> 1197  
 <211> 204  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1197  
 Gln Gly Arg Thr Ser Cys Ile Gly Leu Tyr Thr Tyr Gln Arg Arg Ile  
 1 5 10 15  
 Cys Lys Tyr Arg Asp Gln Tyr Asn Trp Phe Phe Leu Ala Arg Pro Thr  
 20 25 30  
 Thr Phe Ala Ile Ile Glu Asn Leu Lys Tyr Phe Leu Leu Lys Lys Asp  
 35 40 45  
 Pro Ser Gln Pro Phe Tyr Leu Gly His Thr Ile Lys Ser Gly Asp Leu  
 50 55 60  
 Glu Tyr Val Gly Met Glu Gly Gly Ile Val Leu Ser Val Glu Ser Met  
 65 70 75 80  
 Lys Arg Leu Asn Ser Leu Leu Asn Ile Pro Glu Lys Cys Pro Glu Gln  
 85 90 95  
 Gly Gly Met Ile Trp Lys Ile Ser Glu Asp Lys Gln Leu Ala Val Cys  
 100 105 110  
 Leu Lys Tyr Ala Gly Val Phe Ala Glu Asn Ala Glu Asp Ala Asp Gly  
 115 120 125  
 Lys Asp Val Phe Asn Thr Lys Ser Val Gly Leu Ser Ile Lys Glu Ala  
 130 135 140  
 Met Thr Tyr His Pro Asn Gln Val Val Glu Gly Cys Cys Ser Asp Met  
 145 150 155 160  
 Ala Val Thr Phe Asn Gly Leu Thr Pro Asn Gln Met His Val Met Met  
 165 170 175  
 Tyr Gly Val Tyr Arg Leu Arg Ala Phe Gly His Ile Phe Asn Asp Ala  
 180 185 190  
 Leu Val Phe Leu Pro Pro Asn Gly Ser Asp Asn Asp  
 195 200 204

<210> 1198  
 <211> 238  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1198  
 His Glu Gly Lys Pro Thr Arg Gly Arg Gly Arg Gly Gly Ser Leu Ser  
 1 5 10 15  
 Thr Arg Gly Arg Gly Ser Glu Val Pro Asp Ser Ala His Leu Ala Pro  
 20 25 30  
 Thr Pro Leu Phe Ser Glu Ser Gly Cys Cys Gly Leu Arg Ser Arg Phe  
 35 40 45  
 Leu Thr Asp Cys Lys Met Glu Glu Gly Gly Asn Leu Gly Gly Leu Ile  
 50 55 60  
 Lys Met Val His Leu Leu Val Leu Ser Gly Ala Trp Gly Met Gln Met  
 65 70 75 80  
 Trp Val Thr Phe Val Ser Gly Phe Leu Leu Phe Arg Ser Leu Pro Arg  
 85 90 95  
 His Thr Phe Gly Leu Val Gln Ser Lys Leu Phe Pro Phe Tyr Phe His  
 100 105 110  
 Ile Ser Met Gly Cys Ala Phe Ile Asn Leu Cys Ile Leu Ala Ser Gln  
 115 120 125  
 His Ala Trp Ala Gln Leu Thr Phe Trp Glu Ala Ser Gln Leu Tyr Leu  
 130 135 140  
 Leu Phe Leu Ser Leu Thr Leu Ala Thr Val Asn Ala Arg Trp Leu Glu  
 145 150 155 160  
 Pro Arg Thr Thr Ala Ala Met Trp Ala Leu Gln Thr Val Glu Lys Glu  
 165 170 175  
 Arg Gly Leu Gly Gly Glu Val Pro Gly Ser His Gln Gly Pro Asp Pro  
 180 185 190  
 Tyr Arg Gln Leu Arg Glu Lys Asp Pro Lys Tyr Ser Ala Leu Arg Gln  
 195 200 205  
 Asn Phe Phe Arg Tyr His Gly Leu Ser Ser Leu Cys Asn Leu Gly Cys  
 210 215 220  
 Val Leu Ser Asn Gly Leu Cys Leu Ala Ala Leu Pro Trp Lys  
 225 230 235 238

<210> 1199  
 <211> 100  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1199  
 Lys Gln Leu Asp Lys Gln Leu Arg Ala Asp Pro Ser Gly Ser Leu Pro  
 1 5 10 15  
 Pro Leu Pro Pro Ser Pro Pro Pro Pro Leu Glu Ala Gly Gly Arg Pro  
 20 25 30  
 Pro Glu Val Pro Pro Arg Gly Pro Ser Ala Val Pro Ser Phe Pro Ser  
 35 40 45  
 Val Ser Gly Asp Trp Gly Gly Pro Val Glu Ala Gly Glu Gly Gly Gln  
 50 55 60  
 Gln Gly Arg Gly Arg Ala Arg Ala Arg Pro Cys Ser Leu Pro Pro Leu  
 65 70 75 80  
 Leu Pro Pro Ser Pro Val Cys Arg Leu Ser Gly Ser Arg Ala Pro Leu  
 85 90 95  
 Gly Cys Asp Gly  
 100

<210> 1200  
 <211> 194  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1200  
 Arg Asn Gln Leu Ser Ser Gln Lys Ser Val Pro Trp Val Pro Ile Leu  
 1 5 10 15  
 Lys Ser Leu Pro Leu Trp Ala Ile Val Val Ala His Phe Ser Tyr Asn  
 20 25 30  
 Trp Thr Phe Tyr Thr Leu Leu Thr Leu Leu Pro Thr Tyr Met Lys Glu  
 35 40 45  
 Ile Leu Arg Phe Asn Val Gln Glu Asn Gly Phe Leu Ser Ser Leu Pro  
 50 55 60  
 Tyr Leu Gly Ser Trp Leu Cys Met Ile Leu Ser Gly Gln Ala Ala Asp  
 65 70 75 80  
 Asn Leu Arg Ala Lys Trp Asn Phe Ser Thr Leu Cys Val Arg Arg Ile  
 85 90 95  
 Phe Ser Leu Ile Gly Met Ile Gly Pro Ala Val Phe Leu Val Ala Ala  
 100 105 110  
 Gly Phe Ile Gly Cys Asp Tyr Ser Leu Ala Val Ala Phe Leu Thr Ile  
 115 120 125  
 Ser Thr Thr Leu Gly Gly Phe Cys Ser Ser Gly Phe Ser Ile Asn His  
 130 135 140  
 Leu Asp Ile Ala Pro Ser Tyr Ala Gly Ile Leu Leu Gly Ile Thr Asn  
 145 150 155 160  
 Thr Phe Ala Thr Ile Pro Gly Met Val Gly Pro Val Ile Ala Lys Ser  
 165 170 175  
 Leu Thr Pro Asp Met Gly Ile Ser Leu His Arg Pro Gly Trp Ser Ala  
 180 185 190  
 Val Ala  
 194

<210> 1201  
 <211> 119  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1201  
 Gly Pro Ser Gly Thr Thr His Ala Ser Ala His Ser Gly His Pro Gly  
 1 5 10 15  
 Ser Pro Arg Gly Ser Leu Ser Arg His Pro Ser Ser Gln Leu Ala Gly  
 20 25 30  
 Pro Gly Val Glu Gly Gly Glu Thr Gln Lys Pro Arg Asp Tyr Ile  
 35 40 45  
 Ile Leu Ala Ile Leu Ser Cys Phe Cys Pro Met Trp Pro Val Asn Ile  
 50 55 60  
 Val Ala Phe Ala Tyr Ala Val Met Ser Arg Asn Ser Leu Gln Gln Gly  
 65 70 75 80  
 Asp Val Asp Gly Ala Gln Arg Leu Gly Arg Val Ala Lys Leu Leu Ser  
 85 90 95  
 Ile Val Ala Leu Val Gly Gly Val Leu Ile Ile Ile Ala Ser Cys Val  
 100 105 110  
 Ile Asn Leu Gly Val Tyr Lys  
 115 119

<210> 1202  
 <211> 66  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1202  
 Ser Leu Phe Leu Ser Phe Pro Pro Leu Ser Phe Lys Met Thr Leu Asn  
 1 5 10 15  
 Asp Ala Met Arg Asn Lys Ala Arg Leu Ser Ile Thr Gly Ser Thr Gly  
 20 25 30  
 Glu Asn Gly Arg Val Met Thr Pro Glu Phe Pro Lys Ala Val His Ala  
 35 40 45  
 Val Pro Tyr Val Ser Pro Gly Met Gly Met Asn Val Ser Val Thr Asp  
 50 55 60  
 Leu Ser  
 65 66

<210> 1203  
 <211> 509  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1203  
 Asp Asp Val Pro Pro Ala Pro Asp Leu Tyr Asp Val Pro Pro Gly  
 1 5 10 15  
 Leu Arg Arg Pro Gly Pro Gly Thr Leu Tyr Asp Val Pro Arg Glu Arg  
 20 25 30  
 Val Leu Pro Pro Glu Val Ala Asp Gly Gly Val Val Asp Ser Gly Val  
 35 40 45  
 Tyr Ala Val Pro Pro Pro Ala Glu Arg Glu Ala Pro Ala Glu Gly Lys  
 50 55 60  
 Arg Leu Ser Ala Ser Ser Thr Gly Ser Thr Arg Ser Ser Gln Ser Ala  
 65 70 75 80  
 Ser Ser Leu Glu Val Ala Gly Pro Gly Arg Glu Pro Leu Glu Leu Glu  
 85 90 95  
 Val Ala Val Glu Ala Leu Ala Arg Leu Gln Gln Gly Val Ser Ala Thr  
 100 105 110  
 Val Ala His Leu Leu Asp Leu Ala Gly Ser Ala Gly Ala Thr Gly Ser  
 115 120 125  
 Trp Arg Ser Pro Ser Glu Pro Gln Glu Pro Leu Val Gln Asp Leu Gln  
 130 135 140  
 Ala Ala Val Ala Ala Val Gln Ser Ala Val His Glu Leu Leu Glu Phe  
 145 150 155 160  
 Ala Arg Ser Ala Val Gly Asn Ala Ala His Thr Ser Asp Arg Ala Leu  
 165 170 175  
 His Ala Lys Leu Ser Arg Gln Leu Gln Lys Met Glu Asp Val His Gln  
 180 185 190  
 Thr Leu Val Ala His Gly Gln Ala Leu Asp Ala Gly Arg Gly Gly Ser  
 195 200 205  
 Gly Ala Thr Leu Glu Asp Leu Asp Arg Leu Val Ala Cys Ser Arg Ala  
 210 215 220  
 Val Pro Glu Asp Ala Lys Gln Leu Ala Ser Phe Leu His Gly Asn Ala  
 225 230 235 240

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Ser Leu Leu Phe Arg Arg Thr Lys Ala Thr Ala Pro Gly Pro Glu Gly
      245      250      255
Gly Gly Thr Leu His Pro Asn Pro Thr Asp Lys Thr Ser Ser Ile Gln
      260      265      270
Ser Arg Pro Leu Pro Ser Pro Pro Lys Phe Thr Ser Gln Asp Ser Pro
      275      280      285
Asp Gly Gln Tyr Glu Asn Ser Glu Gly Gly Trp Met Glu Asp Tyr Asp
      290      295      300
Tyr Val His Leu Gln Gly Lys Glu Glu Phe Glu Lys Thr Gln Lys Glu
      305      310      315      320
Leu Leu Glu Lys Gly Ser Ile Thr Arg Gln Gly Lys Ser Gln Leu Glu
      325      330      335
Leu Gln Gln Leu Lys Gln Phe Glu Arg Leu Glu Gln Glu Val Ser Arg
      340      345      350
Pro Ile Asp His Asp Leu Ala Asn Trp Thr Pro Ala Gln Pro Leu Ala
      355      360      365
Pro Gly Arg Thr Gly Gly Leu Gly Pro Ser Asp Arg Gln Leu Leu Leu
      370      375      380
Phe Tyr Leu Glu Gln Cys Glu Ala Asn Leu Thr Thr Leu Thr Asn Ala
      385      390      395      400
Val Asp Ala Phe Phe Thr Ala Val Ala Thr Asn Gln Pro Pro Lys Ile
      405      410      415
Phe Val Ala His Ser Lys Phe Val Ile Leu Ser Ala His Lys Leu Val
      420      425      430
Phe Ile Gly Asp Thr Leu Ser Arg Gln Ala Lys Ala Ala Asp Val Arg
      435      440      445
Ser Gln Val Thr His Tyr Ser Asn Leu Leu Cys Asp Leu Leu Arg Gly
      450      455      460
Ile Val Ala Thr Thr Lys Ala Ala Ala Leu Gln Tyr Pro Ser Pro Ser
      465      470      475      480
Ala Ala Gln Asp Met Val Glu Arg Val Lys Glu Leu Gly His Ser Thr
      485      490      495
Gln Gln Phe Arg Arg Val Leu Gly Gln Leu Ala Ala Ala
      500      505      509

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&lt;210&gt; 1204

&lt;211&gt; 453

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(453)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1204

```

Glu Met Glu Glu Pro Gln Lys Ser Tyr Val Asn Thr Met Asp Leu Glu
  1      5      10      15
Arg Asp Glu Pro Leu Lys Ser Thr Gly Pro Gln Ile Ser Val Ser Glu
      20      25      30
Phe Ser Cys His Cys Cys Tyr Asp Ile Leu Val Asn Pro Thr Thr Leu
      35      40      45
Asn Cys Gly His Ser Phe Cys Arg His Cys Leu Ala Leu Trp Trp Ala
      50      55      60
Ser Ser Lys Lys Thr Glu Cys Pro Glu Cys Arg Glu Lys Trp Glu Gly
      65      70      75      80
Phe Pro Lys Val Ser Ile Leu Leu Arg Asp Ala Ile Glu Lys Leu Phe
      85      90      95
Pro Asp Ala Ile Arg Leu Arg Phe Glu Asp Ile Gln Gln Asn Asn Asp

```

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      100      105      110
Ile Val Gln Ser Leu Ala Ala Phe Gln Lys Tyr Gly Asn Asp Gln Ile
      115      120      125
Pro Leu Ala Pro Asn Thr Gly Arg Ala Asn Gln Gln Met Gly Gly Gly
      130      135      140
Phe Phe Ser Gly Val Leu Thr Ala Leu Thr Gly Val Ala Val Val Leu
145      150      155      160
Leu Val Tyr His Trp Ser Ser Arg Glu Ser Glu His Asp Leu Leu Val
      165      170      175
His Lys Ala Val Ala Lys Trp Thr Ala Glu Glu Val Val Leu Trp Leu
      180      185      190
Glu Gln Leu Gly Pro Trp Ala Ser Leu Tyr Arg Glu Arg Phe Leu Ser
      195      200      205
Glu Arg Val Asn Gly Arg Leu Leu Leu Thr Leu Thr Glu Glu Glu Phe
      210      215      220
Ser Lys Thr Pro Tyr Thr Ile Glu Asn Ser Ser His Arg Arg Ala Ile
225      230      235      240
Leu Met Glu Leu Glu Arg Val Lys Ala Leu Gly Val Lys Pro Pro Gln
      245      250      255
Asn Leu Trp Glu Tyr Lys Ala Val Asn Pro Gly Arg Ser Leu Phe Leu
      260      265      270
Leu Tyr Ala Leu Lys Ser Ser Pro Arg Leu Ser Leu Leu Tyr Leu Tyr
      275      280      285
Leu Phe Asp Tyr Thr Asp Thr Phe Leu Pro Phe Ile His Thr Ile Cys
      290      295      300
Pro Leu Gln Glu Asp Ser Ser Gly Glu Asp Ile Val Thr Lys Leu Leu
305      310      315      320
Asp Leu Lys Glu Pro Thr Trp Lys Gln Trp Arg Glu Phe Leu Val Lys
      325      330      335
Tyr Ser Phe Leu Pro Tyr Gln Leu Ile Ala Glu Phe Ala Trp Asp Trp
      340      345      350
Leu Glu Val His Tyr Trp Thr Ser Arg Phe Leu Ile Ile Asn Ala Met
      355      360      365
Leu Leu Ser Val Leu Glu Leu Phe Ser Phe Trp Arg Ile Trp Ser Arg
      370      375      380
Ser Glu Leu Lys Xaa Val Gly Phe Arg Phe Leu Arg Leu Gly Val Ala
385      390      395      400
Ala Leu Gly Ser Val Glu Val Ala Gly Leu Arg Gly Val Val Lys Gly
      405      410      415
Glu Arg Pro Leu Leu Tyr Gly His Gly Ala Gly Ala Arg Phe Pro His
      420      425      430
Ser Val Leu Leu Leu Pro Val Ala Lys Pro Leu Pro Leu Pro Leu Leu
      435      440      445
Pro Arg Gly Leu Cys
      450      453

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&lt;210&gt; 1205

&lt;211&gt; 80

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1205

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Glu Lys Ala Arg Met Ile Tyr Glu Asp Tyr Ile Ser Ile Leu Ser Pro
 1      5      10      15
Lys Glu Val Ser Leu Asp Ser Arg Val Arg Glu Val Ile Asn Arg Asn
      20      25      30
Leu Leu Asp Pro Asn Pro His Met Tyr Glu Asp Ala Gln Leu Gln Ile
      35      40      45
Tyr Thr Leu Met His Arg Asp Ser Phe Pro Arg Phe Leu Asn Ser Gln

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50                      55                      60  
 Ile Tyr Lys Ser Phe Val Glu Ser Thr Ala Gly Ser Ser Ser Glu Ser  
 65                      70                      75                      80

<210> 1206  
 <211> 205  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1206  
 Leu Tyr Tyr Ser Gln Asp Glu Glu Ser Lys Ile Met Ile Ser Asp Phe  
 1                      5                      10                      15  
 Gly Leu Ser Lys Met Glu Gly Lys Gly Asp Val Met Ser Thr Ala Cys  
                     20                      25                      30  
 Gly Thr Pro Gly Tyr Val Ala Pro Glu Val Leu Ala Gln Lys Pro Tyr  
                     35                      40                      45  
 Ser Lys Ala Val Asp Cys Trp Ser Ile Gly Val Ile Ala Tyr Ile Leu  
                     50                      55                      60  
 Leu Cys Gly Tyr Pro Pro Phe Tyr Asp Glu Asn Asp Ser Lys Leu Phe  
 65                      70                      75                      80  
 Glu Gln Ile Leu Lys Ala Glu Tyr Glu Phe Asp Ser Pro Tyr Trp Asp  
                     85                      90                      95  
 Asp Ile Ser Asp Ser Ala Lys Asp Phe Ile Arg Asn Leu Met Glu Lys  
                     100                      105                      110  
 Asp Pro Asn Lys Arg Tyr Thr Cys Glu Gln Ala Ala Arg His Pro Trp  
                     115                      120                      125  
 Ile Ala Gly Asp Thr Ala Leu Asn Lys Asn Ile His Glu Ser Val Ser  
                     130                      135                      140  
 Ala Gln Ile Arg Lys Asn Phe Ala Lys Ser Lys Trp Arg Gln Ala Phe  
 145                      150                      155                      160  
 Asn Ala Thr Ala Val Val Arg His Met Arg Lys Leu His Leu Gly Ser  
                     165                      170                      175  
 Ser Leu Asp Ser Ser Asn Ala Ser Val Ser Ser Ser Leu Ser Leu Ala  
                     180                      185                      190  
 Ser Gln Lys Asp Cys Ala Ser Gly Thr Phe His Ala Leu  
                     195                      200                      205

<210> 1207  
 <211> 117  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1207  
 Arg Thr Arg Gly Gly Ala Val Ser Phe Glu Asp Phe Ile Lys Gly Leu  
 1                      5                      10                      15  
 Ser Ile Leu Leu Arg Gly Thr Val Gln Glu Lys Leu Asn Trp Ala Phe  
                     20                      25                      30  
 Asn Leu Tyr Asp Ile Asn Lys Asp Gly Tyr Ile Thr Lys Glu Glu Met  
                     35                      40                      45  
 Leu Asp Ile Met Lys Ala Ile Tyr Asp Met Met Gly Lys Cys Thr Tyr  
                     50                      55                      60  
 Pro Val Leu Lys Glu Asp Ala Pro Arg Gln His Val Glu Thr Phe Phe



65		70		75		80
Gln Lys Met Asp	Lys Asn Lys Asp Gly Val Val Thr Ile Asp Glu Phe					
	85		90		95	
Ile Glu Ser Cys	Gln Lys Asp Glu Asn Ile Met Arg Ser Met Gln Leu					
	100	105		110		
Phe Glu Asn Val Ile						
	115	117				

<210> 1208  
 <211> 337  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1208

Pro Arg Ser Pro	Glu His His Thr	Pro Ala Trp His	Glu Gly Arg Ser
1	5	10	15
Leu Gly Pro Ile	Met Ala Ser Met	Ala Asp Arg Asn	Met Lys Leu Phe
	20	25	30
Ser Gly Arg Val	Val Pro Ala Gln	Gly Glu Glu Thr	Phe Glu Asn Trp
	35	40	45
Leu Thr Gln Val	Asn Gly Val Leu	Pro Asp Trp Asn	Met Ser Glu Glu
	50	55	60
Glu Lys Leu Lys	Arg Leu Met Lys	Thr Leu Arg Gly	Pro Ala Arg Glu
	65	70	75
Val Met Arg Val	Leu Gln Ala Thr	Asn Pro Asn Leu	Ser Val Ala Asp
	85	90	95
Phe Leu Arg Ala	Met Lys Leu Val	Phe Gly Glu Ser	Glu Ser Ser Val
	100	105	110
Thr Ala His Gly	Lys Phe Phe Asn	Thr Leu Gln Ala	Gln Gly Glu Lys
	115	120	125
Ala Ser Leu Tyr	Val Ile Arg Leu	Glu Val Gln Leu	Gln Asn Ala Ile
	130	135	140
Gln Ala Gly Ile	Ile Ala Glu Lys	Asp Ala Asn Arg	Thr Arg Leu Gln
	145	150	155
Gln Leu Leu Leu	Gly Gly Glu Leu	Ser Arg Asp Leu	Arg Leu Arg Leu
	165	170	175
Lys Asp Phe Leu	Arg Met Tyr Ala	Asn Glu Gln Glu	Arg Leu Pro Asn
	180	185	190
Phe Leu Glu Leu	Ile Lys Met Val	Arg Glu Glu Glu	Asp Trp Asp Asp
	195	200	205
Ala Phe Ile Lys	Arg Lys Arg Pro	Lys Arg Ser Glu	Ser Met Val Glu
	210	215	220
Arg Ala Val Ser	Pro Val Ala Phe	Gln Gly Ser Pro	Pro Ile Val Ile
	225	230	235
Gly Ser Ala Asp	Cys Asn Val Ile	Glu Ile Asp Asp	Thr Leu Asp Asp
	245	250	255
Ser Asp Glu Asp	Val Ile Leu Val	Glu Ser Gln Asp	Pro Pro Leu Pro
	260	265	270
Ser Trp Gly Ala	Pro Pro Leu Arg	Asp Arg Ala Arg	Pro Gln Asp Glu
	275	280	285
Val Leu Val Ile	Asp Ser Pro His	Asn Ser Arg Ala	Gln Phe Pro Ser
	290	295	300
Thr Ser Gly Gly	Ser Gly Tyr Lys	Asn Asn Gly Pro	Gly Glu Met Arg
	305	310	315
Arg Ala Arg Lys	Arg Lys His Thr	Ile Arg Cys Ser	Tyr Cys Gly Glu
	325	330	335

Glu  
337

<210> 1209  
 <211> 64  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1209  
 Ser Val Ala Cys Thr Val Pro Leu Arg Ser Met Ser Asp Pro Asp Gln  
 1 5 10 15  
 Asp Phe Asp Lys Glu Pro Asp Ser Asp Ser Thr Lys His Ser Thr Pro  
 20 25 30  
 Ser Asn Ser Ser Asn Pro Ser Gly Pro Pro Ser Pro Asn Ser Pro His  
 35 40 45  
 Arg Ser Gln Leu Pro Leu Glu Gly Leu Glu Gln Pro Ala Cys Asp Thr  
 50 55 60 64

<210> 1210  
 <211> 316  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1210  
 Tyr Ser Ala Val Glu Phe Ala Glu Arg Gly Ser Gly Gly Ser Ser Gly  
 1 5 10 15  
 Asp Glu Leu Arg Glu Asp Asp Glu Pro Val Lys Lys Arg Gly Arg Lys  
 20 25 30  
 Gly Arg Gly Arg Gly Pro Pro Ser Ser Ser Asp Ser Glu Pro Glu Ala  
 35 40 45  
 Glu Leu Glu Arg Glu Ala Lys Lys Ser Ala Lys Lys Pro Gln Ser Ser  
 50 55 60  
 Ser Thr Glu Pro Ala Arg Lys Pro Gly Gln Lys Glu Lys Arg Val Arg  
 65 70 75 80  
 Pro Glu Glu Lys Gln Gln Ala Lys Pro Val Lys Val Glu Arg Thr Arg  
 85 90 95  
 Lys Arg Ser Glu Gly Phe Ser Met Asp Arg Lys Val Glu Lys Lys Lys  
 100 105 110  
 Glu Pro Ser Val Glu Glu Lys Leu Gln Lys Leu His Ser Glu Ile Lys  
 115 120 125  
 Phe Ala Leu Lys Val Asp Ser Pro Asp Val Lys Arg Cys Leu Asn Ala  
 130 135 140  
 Leu Glu Glu Leu Gly Thr Leu Gln Val Thr Ser Gln Ile Leu Gln Lys  
 145 150 155 160  
 Asn Thr Asp Val Val Ala Thr Leu Lys Lys Ile Arg Arg Tyr Lys Ala  
 165 170 175  
 Asn Lys Asp Val Met Glu Lys Ala Ala Glu Val Tyr Thr Arg Leu Lys  
 180 185 190  
 Ser Arg Val Leu Gly Pro Lys Ile Glu Ala Val Gln Lys Val Asn Lys  
 195 200 205  
 Ala Gly Met Glu Lys Glu Lys Ala Glu Glu Lys Leu Ala Gly Glu Glu  
 210 215 220  
 Leu Ala Gly Glu Glu Ala Pro Gln Glu Lys Ala Glu Asp Lys Pro Ser  
 225 230 235 240  
 Thr Asp Leu Ser Ala Pro Val Asn Gly Glu Ala Thr Ser Gln Lys Gly

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      245      250      255
Glu Ser Ala Glu Asp Lys Glu His Glu Glu Gly Arg Asp Ser Glu Glu
      260      265      270
Gly Pro Arg Cys Gly Ser Ser Glu Asp Leu His Asp Ser Val Arg Glu
      275      280      285
Gly Pro Asp Leu Asp Arg Pro Gly Ser Asp Arg Gln Glu Arg Glu Arg
      290      295      300
Ala Arg Gly Asp Ser Glu Ala Leu Asp Glu Glu Ser
305      310      315 316

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<210> 1211
<211> 767
<212> Amino acid
<213> Homo sapiens

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<400> 1211
Leu Ala Glu Leu Ser Ser Leu Ser Val Leu Arg Leu Ser His Asn Ser
 1      5      10      15
Ile Ser His Ile Ala Glu Gly Ala Phe Lys Gly Leu Arg Ser Leu Arg
      20      25      30
Val Leu Asp Leu Asp His Asn Glu Ile Ser Gly Thr Ile Glu Asp Thr
      35      40      45
Ser Gly Ala Phe Ser Gly Leu Asp Ser Leu Ser Lys Leu Thr Leu Phe
      50      55      60
Gly Asn Lys Ile Lys Ser Val Ala Lys Arg Ala Phe Ser Gly Leu Glu
      65      70      75      80
Gly Leu Glu His Leu Asn Leu Gly Gly Asn Ala Ile Arg Ser Val Gln
      85      90      95
Phe Asp Ala Phe Val Lys Met Lys Asn Leu Lys Glu Leu His Ile Ser
      100      105      110
Ser Asp Ser Phe Leu Cys Asp Cys Gln Leu Lys Trp Leu Pro Pro Trp
      115      120      125
Leu Ile Gly Arg Met Leu Gln Ala Phe Val Thr Ala Thr Cys Ala His
      130      135      140
Pro Glu Ser Leu Lys Gly Gln Ser Ile Phe Ser Val Pro Pro Glu Ser
      145      150      155      160
Phe Val Cys Asp Asp Phe Leu Lys Pro Gln Ile Ile Thr Gln Pro Glu
      165      170      175
Thr Thr Met Ala Met Val Gly Lys Asp Ile Arg Phe Thr Cys Ser Ala
      180      185      190
Ala Ser Ser Ser Ser Ser Pro Met Thr Phe Ala Trp Lys Lys Asp Asn
      195      200      205
Glu Val Leu Thr Asn Ala Asp Met Glu Asn Phe Val His Val His Ala
      210      215      220
Gln Asp Gly Glu Val Met Glu Tyr Thr Thr Ile Leu His Leu Arg Gln
      225      230      235      240
Val Thr Phe Gly His Glu Gly Arg Tyr Gln Cys Val Ile Thr Asn His
      245      250      255
Phe Gly Ser Thr Tyr Ser His Lys Ala Arg Leu Thr Val Asn Val Leu
      260      265      270
Pro Ser Phe Thr Lys Thr Pro His Asp Ile Thr Ile Arg Thr Thr Thr
      275      280      285
Met Ala Arg Leu Glu Cys Ala Ala Thr Gly His Pro Asn Pro Gln Ile
      290      295      300
Ala Trp Gln Lys Asp Gly Gly Thr Asp Phe Pro Ala Ala Arg Glu Arg
      305      310      315      320
Arg Met His Val Met Pro Asp Asp Asp Val Phe Phe Ile Thr Asp Val
      325      330      335
Lys Ile Asp Asp Ala Gly Val Tyr Ser Cys Thr Ala Gln Asn Ser Ala

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[illegible]

<210> 1212

<211> 821

<212>Amino acid

<213> Homo sapiens

<400> 1212

Ala	Ala	Ala	Gly	Ala	Ala	Arg	Arg	Val	Ser	Val	Arg	Cys	Gly	Arg	Ser
1				5					10					15	
Gly	Pro	Gly	Pro	Gly	Arg	Gly	Ala	Ala	Gly	Leu	Ser	Pro	Ala	Asp	Ile
			20					25					30		
Ala	Leu	Ala	Ser	Glu	Gln	Gly	Ala	Ser	Cys	Ser	Val	Arg	Ala	Pro	Glu
		35				40					45				
Arg	Lys	Leu	Arg	Met	Lys	Leu	Leu	Trp	Gln	Ala	Lys	Met	Ser	Ser	Ile
	50					55					60				
Gln	Asp	Trp	Gly	Glu	Glu	Val	Glu	Glu	Gly	Ala	Val	Tyr	His	Val	Thr
65				70						75					80
Leu	Lys	Arg	Val	Gln	Ile	Gln	Gln	Ala	Ala	Asn	Lys	Gly	Ala	Arg	Trp
			85					90						95	
Leu	Gly	Val	Glu	Gly	Asp	Gln	Leu	Pro	Pro	Gly	His	Thr	Val	Ser	Gln
		100					105						110		
Tyr	Glu	Thr	Cys	Lys	Ile	Arg	Thr	Ile	Lys	Ala	Gly	Thr	Leu	Glu	Lys
	115					120						125			
Leu	Val	Glu	Asn	Leu	Leu	Thr	Ala	Phe	Gly	Asp	Asn	Asp	Phe	Thr	Tyr
130						135					140				
Ile	Ser	Ile	Phe	Leu	Ser	Thr	Tyr	Arg	Gly	Phe	Ala	Ser	Thr	Lys	Glu
145					150					155					160
Val	Leu	Glu	Leu	Leu	Leu	Asp	Arg	Tyr	Gly	Asn	Leu	Thr	Ser	Pro	Asn
			165						170					175	
Cys	Glu	Glu	Asp	Gly	Ser	Gln	Ser	Ser	Ser	Glu	Ser	Lys	Met	Val	Ile
		180					185						190		
Arg	Asn	Ala	Ile	Ala	Ser	Ile	Leu	Arg	Ala	Trp	Leu	Asp	Gln	Cys	Ala
	195					200						205			
Glu	Asp	Phe	Arg	Glu	Pro	Pro	His	Phe	Pro	Cys	Leu	Gln	Lys	Leu	Leu
	210				215						220				
Asp	Tyr	Leu	Thr	Arg	Met	Met	Pro	Gly	Ser	Asp	Pro	Glu	Arg	Arg	Ala
225					230					235					240
Gln	Asn	Leu	Leu	Glu	Gln	Phe	Gln	Lys	Gln	Glu	Val	Glu	Thr	Asp	Asn
			245						250					255	
Gly	Leu	Pro	Asn	Thr	Ile	Ser	Phe	Ser	Leu	Glu	Glu	Glu	Glu	Glu	Leu
		260					265						270		
Glu	Gly	Gly	Glu	Ser	Ala	Glu	Phe	Thr	Cys	Phe	Ser	Glu	Asp	Leu	Val
		275					280					285			
Ala	Glu	Gln	Leu	Thr	Tyr	Met	Asp	Ala	Gln	Leu	Phe	Lys	Lys	Val	Val
	290					295					300				
Pro	His	His	Cys	Leu	Gly	Cys	Ile	Trp	Ser	Arg	Arg	Asp	Lys	Lys	Glu
305				310						315					320
Asn	Lys	His	Leu	Ala	Pro	Thr	Ile	Arg	Ala	Thr	Ile	Ser	Gln	Phe	Asn
			325						330					335	
Thr	Leu	Thr	Lys	Cys	Val	Val	Ser	Thr	Ile	Leu	Gly	Gly	Lys	Glu	Leu
		340						345					350		
Lys	Thr	Gln	Gln	Arg	Ala	Lys	Ile	Ile	Glu	Lys	Trp	Ile	Asn	Ile	Ala
		355					360					365			
His	Glu	Cys	Arg	Leu	Leu	Lys	Asn	Phe	Ser	Ser	Leu	Arg	Ala	Ile	Val
	370					375					380				
Ser	Ala	Leu	Gln	Ser	Asn	Ser	Ile	Tyr	Arg	Leu	Lys	Lys	Thr	Trp	Ala
385					390					395					400
Ala	Val	Pro	Arg	Asp	Arg	Met	Leu	Met	Phe	Glu	Glu	Leu	Ser	Asp	Ile
			405						410					415	
Phe	Ser	Asp	His	Asn	His	Leu	Thr	Ser	Arg	Glu	Leu	Leu	Met	Lys	
		420					425					430			
Glu	Gly	Thr	Ser	Lys	Phe	Ala	Asn	Leu	Asp	Ser	Ser	Val	Lys	Glu	Asn
		435					440					445			
Gln	Lys	Arg	Thr	Gln	Arg	Arg	Leu	Gln	Leu	Gln	Lys	Asp	Met	Gly	Val
	450					455					460				
Met	Gln	Gly	Thr	Val	Pro	Tyr	Leu	Gly	Thr	Phe	Leu	Thr	Asp	Leu	Thr
465					470					475					480
Met	Leu	Asp	Thr	Ala	Leu	Gln	Asp	Tyr	Ile	Glu	Gly	Gly	Leu	Ile	Asn
			485						490					495	
Phe	Glu	Lys	Arg	Arg	Arg	Glu	Phe	Glu	Val	Ile	Ala	Gln	Ile	Lys	Leu

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      500                      505                      510
Leu Gln Ser Ala Cys Asn Ser Tyr Cys Met Thr Pro Asp Gln Lys Phe
      515                      520                      525
Ile Gln Trp Phe Gln Arg Gln Gln Leu Leu Thr Glu Glu Glu Ser Tyr
      530                      535                      540
Ala Leu Ser Cys Glu Ile Glu Ala Ala Ala Asp Ala Ser Thr Thr Ser
545                      550                      555                      560
Pro Lys Pro Trp Lys Ser Met Val Lys Arg Leu Asn Leu Leu Phe Leu
      565                      570                      575
Gly Ala Asp Met Ile Thr Ser Pro Thr Pro Thr Lys Glu Gln Pro Lys
      580                      585                      590
Ser Thr Ala Ser Gly Ser Ser Gly Glu Ser Met Asp Ser Val Ser Val
      595                      600                      605
Ser Ser Cys Glu Ser Asn His Ser Glu Ala Glu Glu Gly Tyr Ile Thr
      610                      615                      620
Pro Met Asp Thr Pro Asp Glu Pro Gln Lys Lys Leu Ser Glu Ser Ser
625                      630                      635                      640
Ser Tyr Cys Ser Ser Ile His Ser Met Asp Thr Asn Phe Leu Gln Gly
      645                      650                      655
Met Ser Ser Leu Ile Asn Pro Leu Ser Ser Pro Pro Ser Cys Asn Asn
      660                      665                      670
Asn Pro Lys Ile His Lys Arg Ser Val Ser Val Thr Ser Ile Thr Ser
      675                      680                      685
Thr Val Leu Pro Pro Val Tyr Asn Gln Gln Asn Glu Asp Thr Cys Ile
      690                      695                      700
Ile Arg Ile Ser Val Glu Asp Asn Asn Gly Asn Met Tyr Lys Ser Ile
705                      710                      715                      720
Met Leu Thr Ser Gln Asp Lys Thr Pro Ala Val Ile Gln Arg Ala Met
      725                      730                      735
Leu Lys His Asn Leu Asp Ser Asp Pro Ala Glu Glu Tyr Glu Leu Val
      740                      745                      750
Gln Val Ile Ser Glu Asp Lys Glu Leu Val Ile Pro Asp Ser Ala Asn
      755                      760                      765
Val Phe Tyr Ala Met Asn Ser Gln Val Asn Phe Asp Phe Ile Leu Arg
      770                      775                      780
Lys Lys Asn Ser Met Glu Glu Gln Val Lys Leu Arg Ser Arg Thr Ser
785                      790                      795                      800
Leu Thr Leu Pro Arg Thr Ala Lys Arg Gly Cys Trp Ser Asn Arg His
      805                      810                      815
Ser Lys Ile Thr Leu
      820 821

```

&lt;210&gt; 1213

&lt;211&gt; 289

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1213

```

Ala Arg Glu Lys Met Asp Ser Cys Ile Glu Ala Phe Gly Thr Thr Lys
  1                      5                      10                      15
Gln Lys Arg Ala Leu Asn Thr Arg Arg Met Asn Arg Val Gly Asn Glu
      20                      25                      30
Ser Leu Asn Arg Ala Val Ala Lys Ala Ala Glu Thr Ile Ile Asp Thr
      35                      40                      45
Lys Gly Val Thr Ala Leu Val Ser Asp Ala Ile His Asn Asp Leu Gln
      50                      55                      60
Asp Asp Ser Leu Tyr Leu Pro Pro Cys Tyr Asp Asp Ala Ala Lys Pro
      65                      70                      75                      80
Glu Asp Val Tyr Lys Phe Glu Asp Leu Leu Ser Pro Ala Glu Tyr Glu

```

```

      85      90      95
Ala Leu Gln Ser Pro Ser Glu Ala Phe Arg Asn Val Thr Ser Glu Glu
      100      105      110
Ile Leu Lys Met Ile Glu Glu Asn Ser His Cys Thr Phe Val Ile Glu
      115      120      125
Ala Leu Lys Ser Leu Pro Ser Asp Val Glu Ser Arg Asp Arg Gln Ala
      130      135      140
Arg Cys Ile Trp Phe Leu Asp Thr Leu Ile Lys Phe Arg Ala His Arg
      145      150      155      160
Val Val Lys Arg Lys Ser Ala Leu Gly Pro Gly Val Pro His Ile Ile
      165      170      175
Asn Thr Lys Leu Leu Lys His Phe Thr Cys Leu Thr Tyr Asn Asn Gly
      180      185      190
Arg Leu Arg Asn Leu Ile Ser Asp Ser Met Lys Ala Lys Ile Thr Ala
      195      200      205
Tyr Val Ile Ile Leu Ala Leu His Ile His Asp Phe Gln Ile Asp Leu
      210      215      220
Thr Val Leu Gln Arg Asp Leu Lys Leu Ser Glu Lys Arg Met Met Glu
      225      230      235      240
Ile Ala Lys Ala Met Arg Leu Lys Ile Ser Lys Arg Arg Val Ser Val
      245      250      255
Ala Ala Gly Ser Glu Glu Asp His Lys Leu Gly Thr Leu Ser Leu Pro
      260      265      270
Leu Pro Pro Ala Gln Thr Ser Asp Arg Leu Ala Lys Arg Arg Lys Ile
      275      280      285
Thr
289

```

```

<210> 1214
<211> 873
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1214
Leu Ser Leu Phe Gly Ser Arg Ala Leu Gly Arg Ser Gly Ala Arg Ala
 1      5      10      15
Met Ala Lys Ala Lys Lys Val Gly Ala Arg Arg Lys Ala Ser Gly Ala
      20      25      30
Pro Ala Gly Ala Arg Gly Gly Pro Ala Lys Ala Asn Ser Asn Pro Phe
      35      40      45
Glu Val Lys Val Asn Arg Gln Lys Phe Gln Ile Leu Gly Arg Lys Thr
      50      55      60
Arg His Asp Val Gly Leu Pro Gly Val Ser Arg Ala Arg Ala Leu Arg
      65      70      75      80
Lys Arg Thr Gln Thr Leu Leu Lys Glu Tyr Lys Glu Arg Asp Lys Ser
      85      90      95
Asn Val Phe Arg Asp Lys Arg Phe Gly Glu Tyr Asn Ser Asn Met Ser
      100      105      110
Pro Glu Glu Lys Met Met Lys Arg Phe Ala Leu Glu Gln Gln Arg His
      115      120      125
His Glu Lys Lys Ser Ile Tyr Asn Leu Asn Glu Asp Glu Glu Leu Thr
      130      135      140
His Tyr Gly Gln Ser Leu Ala Asp Ile Glu Lys His Asn Asp Ile Val
      145      150      155      160
Asp Ser Asp Ser Asp Ala Glu Asp Arg Gly Thr Leu Ser Gly Glu Leu
      165      170      175
Thr Ala Ala His Phe Gly Gly Gly Gly Gly Leu Leu His Lys Lys Thr
      180      185      190
Gln Gln Glu Gly Glu Glu Arg Glu Lys Pro Lys Ser Arg Lys Glu Leu

```

195	200	205
Ile Glu Glu Leu Ile Ala Lys Ser Lys Gln Glu Lys Arg Glu Arg Gln		
210	215	220
Ala Gln Arg Glu Asp Ala Leu Glu Leu Thr Glu Lys Leu Asp Gln Asp		
225	230	235
Trp Lys Glu Ile Gln Thr Leu Leu Ser His Lys Thr Pro Lys Ser Glu		
	245	250
Asn Arg Asp Lys Lys Glu Lys Pro Lys Pro Asp Ala Tyr Asp Met Met		
	260	265
Val Arg Glu Leu Gly Phe Glu Met Lys Ala Gln Pro Ser Asn Arg Met		
	275	280
Lys Thr Glu Ala Glu Leu Ala Lys Glu Glu Gln Glu His Leu Arg Lys		
	290	295
Leu Glu Ala Glu Arg Leu Arg Arg Met Leu Gly Lys Asp Glu Asp Glu		
305	310	315
Asn Val Lys Lys Pro Lys His Met Ser Ala Asp Asp Leu Asn Asp Gly		
	325	330
Phe Val Leu Asp Lys Asp Asp Arg Arg Leu Leu Ser Tyr Lys Asp Gly		
	340	345
Lys Met Asn Val Glu Glu Asp Val Gln Glu Glu Gln Ser Lys Glu Ala		
	355	360
Ser Asp Pro Glu Ser Asn Glu Glu Glu Gly Asp Ser Ser Gly Gly Glu		
	370	375
Asp Thr Glu Glu Ser Asp Ser Pro Asp Ser His Leu Asp Leu Glu Ser		
385	390	395
Asn Val Glu Ser Glu Glu Glu Asn Glu Lys Pro Ala Lys Glu Gln Arg		
	405	410
Gln Thr Pro Gly Lys Gly Leu Ile Ser Gly Lys Glu Arg Ala Gly Lys		
	420	425
Ala Thr Arg Asp Glu Leu Pro Tyr Thr Phe Ala Ala Pro Glu Ser Tyr		
	435	440
Glu Glu Leu Arg Ser Leu Leu Leu Gly Arg Ser Met Glu Glu Gln Leu		
	450	455
Leu Val Val Glu Arg Ile Gln Lys Cys Asn His Pro Ser Leu Ala Glu		
465	470	475
Gly Asn Lys Ala Lys Leu Glu Lys Leu Phe Gly Phe Leu Leu Glu Tyr		
	485	490
Val Gly Asp Leu Ala Thr Asp Asp Pro Pro Asp Leu Thr Val Ile Asp		
	500	505
Lys Leu Val Val His Leu Tyr His Leu Cys Gln Met Phe Pro Glu Ser		
	515	520
Ala Ser Asp Ala Ile Lys Phe Val Leu Arg Asp Ala Met His Glu Met		
	530	535
Glu Glu Met Ile Glu Thr Lys Gly Arg Ala Ala Leu Pro Gly Leu Asp		
545	550	555
Val Leu Ile Tyr Leu Lys Ile Thr Gly Leu Leu Phe Pro Thr Ser Asp		
	565	570
Phe Trp His Pro Val Val Thr Pro Ala Leu Val Cys Leu Ser Gln Leu		
	580	585
Leu Thr Lys Cys Pro Ile Leu Ser Leu Gln Asp Val Val Lys Gly Leu		
	595	600
Phe Val Cys Cys Leu Phe Leu Glu Tyr Val Ala Leu Ser Gln Arg Phe		
	610	615
Ile Pro Glu Leu Ile Asn Phe Leu Leu Gly Ile Leu Tyr Ile Ala Thr		
625	630	635
Pro Asn Lys Ala Ser Gln Gly Ser Thr Leu Val His Pro Phe Arg Ala		
	645	650
Leu Gly Lys Asn Ser Glu Leu Leu Val Val Ser Ala Arg Glu Asp Val		
	660	665
Ala Thr Trp Gln Gln Ser Ser Leu Ser Leu Arg Trp Ala Ser Arg Leu		
	675	680
Arg Ala Pro Thr Ser Thr Glu Ala Asn His Ile Arg Leu Ser Cys Leu		
	690	695
Ala Val Gly Leu Ala Leu Leu Lys Arg Cys Val Leu Met Tyr Gly Ser		
		700



```

705              710              715              720
Leu Pro Ser Phe His Ala Ile Met Gly Pro Leu Arg Ala Leu Leu Thr
              725              730              735
Asp His Leu Ala Asp Cys Ser His Pro Gln Glu Leu Gln Glu Leu Cys
              740              745              750
Gln Ser Thr Leu Thr Glu Met Glu Ser Gln Lys Gln Leu Cys Arg Pro
              755              760              765
Leu Thr Cys Glu Lys Ser Lys Pro Val Pro Leu Lys Leu Phe Thr Pro
              770              775              780
Arg Leu Val Lys Val Leu Glu Phe Gly Arg Lys Gln Gly Ser Ser Lys
785              790              795              800
Glu Glu Gln Glu Arg Lys Arg Leu Ile His Lys His Lys Arg Glu Phe
              805              810              815
Lys Gly Ala Val Arg Glu Ile Arg Lys Asp Asn Gln Phe Leu Ala Arg
              820              825              830
Met Gln Leu Ser Glu Ile Met Glu Arg Asp Ala Glu Arg Lys Arg Lys
835              840              845
Val Lys Gln Leu Phe Asn Ser Leu Ala Thr Gln Glu Gly Glu Trp Lys
850              855              860
Ala Leu Lys Arg Lys Lys Phe Lys Lys
865              870              873

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```

<210> 1215
<211> 319
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1215
Leu Thr Lys Gln Glu Asp Cys Cys Gly Ser Ile Gly Thr Ala Trp Gly
 1              5              10              15
Gln Ser Lys Cys His Lys Cys Pro Gln Leu Gln Tyr Thr Gly Val Gln
              20              25              30
Lys Pro Gly Pro Val Arg Gly Glu Val Gly Ala Asp Cys Pro Gln Gly
35              40              45
Tyr Lys Arg Leu Asn Ser Thr His Cys Gln Asp Ile Asn Glu Cys Ala
50              55              60
Met Pro Gly Val Cys Arg His Gly Asp Cys Leu Asn Asn Pro Gly Ser
65              70              75              80
Tyr Arg Cys Val Cys Pro Pro Gly His Ser Leu Gly Pro Ser Arg Thr
              85              90              95
Gln Cys Ile Ala Asp Lys Pro Glu Glu Lys Ser Leu Cys Phe Arg Leu
100              105              110
Val Ser Pro Glu His Gln Cys Gln His Pro Leu Thr Thr Arg Leu Thr
115              120              125
Arg Gln Leu Cys Cys Cys Ser Val Gly Lys Ala Trp Gly Ala Arg Cys
130              135              140
Gln Arg Cys Pro Thr Asp Gly Thr Ala Ala Phe Lys Glu Ile Cys Pro
145              150              155              160
Ala Gly Lys Gly Tyr His Ile Leu Thr Ser His Gln Thr Leu Thr Ile
165              170              175
Gln Gly Glu Ser Asp Phe Ser Leu Phe Leu His Pro Asp Gly Pro Pro
180              185              190
Lys Pro Gln Gln Leu Pro Glu Ser Pro Ser Gln Ala Pro Pro Pro Glu
195              200              205
Asp Thr Glu Glu Glu Arg Gly Val Thr Thr Asp Ser Pro Val Ser Glu
210              215              220
Glu Arg Ser Val Gln Gln Ser His Pro Thr Ala Thr Thr Thr Pro Ala
225              230              235              240
Arg Pro Tyr Pro Glu Leu Ile Ser Arg Pro Ser Pro Pro Thr Met Arg

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```

                245                250                255
Trp Phe Leu Pro Asp Leu Pro Pro Ser Arg Ser Ala Val Glu Ile Ala
                260                265                270
Pro Thr Gln Val Thr Glu Thr Asp Glu Cys Arg Leu Asn Gln Asn Ile
                275                280                285
Cys Gly His Gly Glu Cys Val Pro Gly Pro Pro Asp Tyr Ser Cys His
                290                295                300
Cys Asn Pro Gly Tyr Arg Ser His Pro Gln His Arg Tyr Cys Val
305                310                315                319

```

```

<210> 1216
<211> 815
<212> Amino acid
<213> Homo sapiens

```

```

<400> 1216
Met Ala Gly Gly His Cys Gly Ser Phe Pro Ala Ala Ala Ala Gly Ser
 1                5                10                15
Gly Glu Ile Val Gln Leu Asn Val Gly Gly Thr Arg Phe Ser Thr Ser
                20                25                30
Arg Gln Thr Leu Met Trp Ile Pro Asp Ser Phe Phe Ser Ser Leu Leu
 35                40                45
Ser Gly Arg Ile Ser Thr Leu Arg Asp Glu Thr Gly Ala Ile Phe Ile
 50                55                60
Asp Arg Asp Pro Ala Ala Phe Ala Pro Ile Leu Asn Phe Leu Arg Thr
 65                70                75                80
Lys Glu Leu Asp Leu Arg Gly Val Ser Ile Asn Val Leu Arg His Glu
                85                90                95
Ala Glu Phe Tyr Gly Ile Thr Pro Leu Val Arg Arg Leu Leu Leu Cys
                100                105                110
Glu Glu Leu Glu Arg Ser Ser Cys Gly Ser Val Leu Phe His Gly Tyr
 115                120                125
Leu Pro Pro Pro Gly Ile Pro Ser Arg Lys Ile Asn Asn Thr Val Arg
 130                135                140
Ser Ala Asp Ser Arg Asn Gly Leu Asn Ser Thr Glu Gly Glu Ala Arg
 145                150                155                160
Gly Asn Gly Thr Gln Pro Val Leu Ser Gly Thr Gly Glu Glu Thr Val
                165                170                175
Arg Leu Gly Phe Pro Val Asp Pro Arg Lys Val Leu Ile Val Ala Gly
                180                185                190
His His Asn Trp Ile Val Ala Ala Tyr Ala His Phe Ala Val Trp Tyr
 195                200                205
Arg Ile Lys Glu Ser Ser Gly Trp Gln Gln Val Phe Thr Ser Pro Tyr
 210                215                220
Leu Asp Trp Thr Ile Glu Arg Val Ala Leu Asn Ala Lys Val Val Gly
 225                230                235                240
Gly Pro His Gly Asp Lys Asp Lys Met Val Ala Val Ala Ser Glu Ser
                245                250                255
Ser Ile Ile Leu Trp Ser Val Gln Asp Gly Gly Ser Gly Ser Glu Ile
                260                265                270
Gly Val Phe Ser Leu Gly Val Pro Val Asp Ala Leu Phe Phe Ile Gly
 275                280                285
Asn Gln Leu Val Ala Thr Ser His Thr Gly Lys Val Gly Val Trp Asn
 290                295                300
Ala Val Thr Gln His Trp Gln Val Gln Asp Val Val Pro Ile Thr Ser
 305                310                315                320
Tyr Asp Thr Ala Gly Ser Phe Leu Leu Leu Gly Cys Asn Asn Gly Ser
                325                330                335
Ile Tyr Tyr Ile Asp Met Gln Lys Phe Pro Leu Arg Met Lys Asp Asn

```

[illegible]

```
<210> 1217
<211> 459
<212>Amino acid
```

&lt;213&gt; Homo sapiens

&lt;400&gt; 1217

```

Arg Arg Pro Thr Arg Pro Ile Leu Thr Asp Glu Leu Phe Lys Arg Thr
 1      5      10      15
Ile Gln Leu Pro His Leu Lys Thr Leu Ile Leu Asn Gly Asn Lys Leu
      20      25      30
Glu Thr Leu Ser Leu Val Ser Cys Phe Ala Asn Asn Thr Pro Leu Glu
      35      40      45
His Leu Asp Leu Ser Gln Asn Leu Leu Gln His Lys Asn Asp Glu Asn
      50      55      60
Cys Ser Trp Pro Glu Thr Val Val Asn Met Asn Leu Ser Tyr Asn Lys
      65      70      75      80
Leu Ser Asp Ser Val Phe Arg Cys Leu Pro Lys Ser Ile Gln Ile Leu
      85      90      95
Asp Leu Asn Asn Asn Gln Ile Gln Thr Val Pro Lys Glu Thr Ile His
      100      105      110
Leu Met Ala Leu Arg Glu Leu Asn Ile Ala Phe Asn Phe Leu Thr Asp
      115      120      125
Leu Pro Gly Cys Ser His Phe Ser Arg Leu Ser Val Leu Asn Ile Glu
      130      135      140
Met Asn Phe Ile Leu Ser Pro Ser Leu Asp Phe Val Gln Ser Cys Gln
      145      150      155      160
Glu Val Lys Thr Leu Asn Ala Gly Arg Asn Pro Phe Arg Cys Thr Cys
      165      170      175
Glu Leu Lys Asn Phe Ile Gln Leu Glu Thr Tyr Ser Glu Val Met Met
      180      185      190
Val Gly Trp Ser Asp Ser Tyr Thr Cys Glu Tyr Pro Leu Asn Leu Arg
      195      200      205
Gly Thr Arg Leu Lys Asp Val His Leu His Glu Leu Ser Cys Asn Thr
      210      215      220
Ala Leu Leu Ile Val Thr Ile Val Val Ile Met Leu Val Leu Gly Leu
      225      230      235      240
Ala Val Ala Phe Cys Cys Leu His Phe Asp Leu Pro Trp Tyr Leu Arg
      245      250      255
Met Leu Gly Gln Cys Thr Gln Thr Trp His Arg Val Arg Lys Thr Thr
      260      265      270
Gln Glu Gln Leu Lys Arg Asn Val Arg Phe His Ala Phe Ile Ser Tyr
      275      280      285
Ser Glu His Asp Ser Leu Trp Val Lys Asn Glu Leu Ile Pro Asn Leu
      290      295      300
Glu Lys Glu Asp Gly Ser Ile Leu Ile Cys Leu Tyr Glu Ser Tyr Phe
      305      310      315      320
Asp Pro Gly Lys Ser Ile Ser Glu Asn Ile Val Ser Phe Ile Glu Lys
      325      330      335
Ser Tyr Lys Ser Ile Phe Val Leu Ser Pro Asn Phe Val Gln Asn Glu
      340      345      350
Trp Cys His Tyr Glu Phe Tyr Phe Ala His His Asn Leu Phe His Glu
      355      360      365
Asn Ser Asp His Ile Ile Leu Ile Leu Leu Glu Pro Ile Pro Phe Tyr
      370      375      380
Cys Ile Pro Thr Arg Tyr His Lys Leu Lys Ala Leu Leu Glu Lys Lys
      385      390      395      400
Ala Tyr Leu Glu Trp Pro Lys Asp Arg Arg Lys Cys Gly Leu Phe Trp
      405      410      415
Ala Asn Leu Arg Ala Ala Ile Asn Val Asn Val Leu Ala Thr Arg Glu
      420      425      430
Met Tyr Glu Leu Gln Thr Phe Thr Glu Leu Asn Glu Glu Ser Arg Gly
      435      440      445
Ser Thr Ile Ser Leu Met Arg Thr Asp Cys Leu

```

450

455

459

<210> 1218  
 <211> 366  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1218  
 Pro Thr Arg Pro Pro Thr Arg Pro Pro Thr Arg Pro Leu Leu Thr Pro  
 1 5 10 15  
 Ser Trp Thr Ser Thr Gly Arg Met Trp Ser His Leu Asn Arg Leu Leu  
 20 25 30  
 Phe Trp Ser Ile Phe Ser Ser Val Thr Cys Arg Lys Ala Val Leu Asp  
 35 40 45  
 Cys Glu Ala Met Lys Thr Asn Glu Phe Pro Ser Pro Cys Leu Asp Ser  
 50 55 60  
 Lys Thr Lys Val Val Met Lys Gly Gln Asn Val Ser Met Phe Cys Ser  
 65 70 75 80  
 His Lys Asn Lys Ser Leu Gln Ile Thr Tyr Ser Leu Phe Arg Arg Lys  
 85 90 95  
 Thr His Leu Gly Thr Gln Asp Gly Lys Gly Glu Pro Ala Ile Phe Asn  
 100 105 110  
 Leu Ser Ile Thr Glu Ala His Glu Ser Gly Pro Tyr Lys Cys Lys Ala  
 115 120 125  
 Gln Val Thr Ser Cys Ser Lys Tyr Ser Arg Asp Phe Ser Phe Thr Ile  
 130 135 140  
 Val Asp Pro Val Thr Ser Pro Val Leu Asn Ile Met Val Ile Gln Thr  
 145 150 155 160  
 Glu Thr Asp Arg His Ile Thr Leu His Cys Leu Ser Val Asn Gly Ser  
 165 170 175  
 Leu Pro Ile Asn Tyr Thr Phe Phe Glu Asn His Val Ala Ile Ser Pro  
 180 185 190  
 Ala Ile Ser Lys Tyr Asp Arg Glu Pro Ala Glu Phe Asn Leu Thr Lys  
 195 200 205  
 Lys Asn Pro Gly Glu Glu Glu Glu Tyr Arg Cys Glu Ala Lys Asn Arg  
 210 215 220  
 Leu Pro Asn Tyr Ala Thr Tyr Ser His Pro Val Thr Met Pro Ser Thr  
 225 230 235 240  
 Gly Gly Asp Ser Cys Pro Phe Cys Leu Lys Leu Leu Leu Pro Gly Leu  
 245 250 255  
 Leu Leu Leu Leu Val Val Ile Ile Leu Ile Leu Ala Phe Trp Val Leu  
 260 265 270  
 Pro Lys Tyr Lys Thr Arg Lys Ala Met Arg Asn Asn Val Pro Arg Asp  
 275 280 285  
 Arg Gly Asp Thr Ala Met Glu Val Gly Ile Tyr Ala Asn Ile Leu Glu  
 290 295 300  
 Lys Gln Ala Lys Glu Glu Ser Val Pro Glu Val Gly Ser Arg Pro Cys  
 305 310 315 320  
 Val Ser Thr Ala Gln Asp Glu Ala Lys His Ser Gln Glu Leu Gln Tyr  
 325 330 335  
 Ala Thr Pro Val Phe Gln Glu Val Ala Pro Arg Glu Gln Glu Ala Cys  
 340 345 350  
 Asp Ser Tyr Lys Ser Gly Tyr Val Tyr Ser Glu Leu Asn Phe  
 355 360 365 366

<210> 1219  
 <211> 97  
 <212>Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1219

```

Phe Phe Phe Phe Glu Glu Arg Arg Thr Gly Ser His Ser Val Gly His
 1           5           10           15
Pro Arg Met Glu Tyr Ser Gly Val Ser Met Ala His Cys Ser Leu Asn
          20           25           30
Leu Leu Gly Ser Ser Asn Ser Pro Ser Ser Ala Ser Gln Asp Ala Arg
          35           40           45
Thr Thr Gly Ala Cys Gln His Ala Gln Leu Ile Gly Phe Phe Phe Phe
          50           55           60
Val Glu Thr Ala Ser Pro Gln Val Thr His Ala Gly Leu Lys His Leu
          65           70           75           80
Val Ser Arg Asn Pro Ser Ala Val Thr Ser Gln Ser Ala Arg Ile Lys
          85           90           95
Thr
          97

```

&lt;210&gt; 1220

&lt;211&gt; 242

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1220

```

Asn Arg Glu Gly Ala Arg Lys Ile Gln Asn Lys Trp Leu Arg Pro Ser
 1           5           10           15
Pro Arg Ser His Arg Thr Pro Glu Ser Val Ser Pro Glu Arg Tyr Ser
          20           25           30
Tyr Gly Thr Ser Ser Ser Ser Lys Arg Thr Glu Gly Ser Cys Arg Arg
          35           40           45
Arg Arg Gln Ser Ser Ser Ser Ala Asn Ser Gln Gln Gly Gln Trp Glu
          50           55           60
Thr Gly Ser Pro Pro Thr Lys Arg Gln Arg Arg Ser Arg Gly Arg Pro
          65           70           75           80
Ser Gly Gly Ala Lys Arg Arg Arg Arg Gly Ala Pro Ala Ala Pro Gln
          85           90           95
Gln Gln Ser Glu Pro Ala Arg Pro Ser Ser Glu Gly Lys Val Thr Cys
          100           105           110
Asp Ile Arg Leu Arg Val Arg Ala Glu Tyr Cys Glu His Gly Pro Ala
          115           120           125
Leu Glu Gln Gly Val Ala Ser Arg Arg Pro Gln Ala Leu Ala Arg Gln
          130           135           140
Leu Asp Val Phe Gly Gln Ala Thr Ala Val Leu Arg Ser Arg Asp Leu
          145           150           155           160
Gly Ser Val Val Cys Asp Ile Lys Phe Ser Glu Leu Ser Tyr Leu Asp
          165           170           175
Ala Phe Trp Gly Asp Tyr Leu Ser Gly Ala Leu Leu Gln Ala Leu Arg
          180           185           190
Gly Val Phe Leu Thr Glu Ala Leu Arg Glu Ala Val Gly Arg Glu Ala
          195           200           205
Val Arg Leu Leu Val Ser Val Asp Glu Ala Asp Tyr Glu Ala Gly Arg
          210           215           220
Arg Arg Leu Leu Leu Met Glu Glu Glu Gly Gly Arg Arg Pro Thr Glu
          225           230           235           240
Ala Ser

```

242

<210> 1221  
 <211> 440  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1221  
 Ala Pro Asn Thr Ala Glu Leu Arg Ile Cys Arg Val Asn Lys Asn Cys  
 1 5 10 15  
 Gly Ser Val Arg Gly Gly Asp Glu Ile Phe Leu Leu Cys Asp Lys Val  
 20 25 30  
 Gln Lys Asp Asp Ile Glu Val Arg Phe Val Leu Asn Asp Trp Glu Ala  
 35 40 45  
 Lys Gly Ile Phe Ser Gln Ala Asp Val His Arg Gln Val Ala Ile Val  
 50 55 60  
 Phe Lys Thr Pro Pro Tyr Cys Lys Ala Ile Thr Glu Pro Val Thr Val  
 65 70 75 80  
 Lys Met Gln Leu Arg Arg Pro Ser Asp Gln Glu Val Ser Glu Ser Met  
 85 90 95  
 Asp Phe Arg Tyr Leu Pro Asp Glu Lys Asp Thr Tyr Gly Asn Lys Ala  
 100 105 110  
 Lys Lys Gln Lys Thr Thr Leu Leu Phe Gln Lys Leu Cys Gln Asp His  
 115 120 125  
 Val Glu Thr Gly Phe Arg His Val Asp Gln Asp Gly Leu Glu Leu Leu  
 130 135 140  
 Thr Ser Gly Asp Pro Pro Thr Leu Ala Ser Gln Ser Ala Gly Ile Thr  
 145 150 155 160  
 Val Asn Phe Pro Glu Arg Pro Arg Pro Gly Leu Leu Gly Ser Ile Gly  
 165 170 175  
 Glu Gly Arg Tyr Phe Lys Lys Glu Pro Asn Leu Phe Ser His Asp Ala  
 180 185 190  
 Val Val Arg Glu Met Pro Thr Gly Val Ser Ser Gln Ala Glu Ser Tyr  
 195 200 205  
 Tyr Pro Ser Pro Gly Pro Ile Ser Ser Gly Leu Ser His His Ala Ser  
 210 215 220  
 Met Ala Pro Leu Pro Ser Ser Ser Trp Ser Ser Val Ala His Pro Thr  
 225 230 235 240  
 Pro Arg Ser Gly Asn Thr Asn Pro Leu Ser Ser Phe Ser Thr Arg Thr  
 245 250 255  
 Leu Pro Ser Asn Ser Gln Gly Ile Pro Pro Phe Leu Arg Ile Pro Val  
 260 265 270  
 Gly Asn Asp Leu Asn Ala Ser Asn Ala Cys Ile Tyr Asn Asn Ala Asp  
 275 280 285  
 Asp Ile Val Gly Met Glu Ala Ser Ser Met Pro Ser Ala Asp Leu Tyr  
 290 295 300  
 Gly Ile Ser Asp Pro Asn Met Leu Ser Asn Cys Ser Val Asn Met Met  
 305 310 315 320  
 Thr Thr Ser Ser Asp Ser Met Gly Glu Thr Asp Asn Pro Arg Leu Leu  
 325 330 335  
 Ser Met Asn Leu Glu Asn Pro Ser Cys Asn Ser Val Leu Asp Pro Arg  
 340 345 350  
 Asp Leu Arg Gln Leu His Gln Met Ser Ser Ser Ser Met Ser Ala Gly  
 355 360 365  
 Ala Asn Ser Asn Thr Thr Val Phe Val Ser Gln Ser Asp Ala Phe Glu  
 370 375 380  
 Gly Ser Asp Phe Ser Cys Ala Asp Asn Ser Met Ile Asn Glu Ser Gly  
 385 390 395 400  
 Pro Ser Asn Ser Thr Asn Pro Asn Ser His Gly Phe Val Gln Asp Ser

				405					410					415			
Gln	Tyr	Ser	Gly	Ile	Gly	Ser	Met	Gln	Asn	Glu	Gln	Leu	Ser	Asp	Ser		
			420					425					430				
Phe	Pro	Tyr	Glu	Phe	Phe	Gln	Val										
		435					440										

<210> 1222  
 <211> 437  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1222

Arg	Arg	Leu	Ser	Leu	Leu	Asp	Leu	Gln	Leu	Gly	Pro	Leu	Gly	Arg	Asp		
1				5					10					15			
Pro	Pro	Gln	Glu	Cys	Ser	Thr	Phe	Ser	Pro	Thr	Asp	Ser	Gly	Glu	Glu		
		20						25					30				
Pro	Gly	Gln	Leu	Ser	Pro	Gly	Val	Gln	Phe	Gln	Arg	Arg	Gln	Asn	Gln		
		35					40					45					
Arg	Arg	Phe	Ser	Met	Glu	Asp	Val	Ser	Lys	Arg	Leu	Ser	Leu	Pro	Met		
	50				55					60							
Asp	Ile	Arg	Leu	Pro	Gln	Glu	Phe	Leu	Gln	Lys	Leu	Gln	Met	Glu	Ser		
65					70					75					80		
Pro	Asp	Leu	Pro	Lys	Pro	Leu	Ser	Arg	Met	Ser	Arg	Arg	Ala	Ser	Leu		
			85					90						95			
Ser	Asp	Ile	Gly	Phe	Gly	Lys	Leu	Glu	Thr	Tyr	Val	Lys	Leu	Asp	Lys		
		100						105					110				
Leu	Gly	Glu	Gly	Thr	Tyr	Ala	Thr	Val	Phe	Lys	Gly	Arg	Ser	Lys	Leu		
	115					120						125					
Thr	Glu	Asn	Leu	Val	Ala	Leu	Lys	Glu	Ile	Arg	Leu	Glu	His	Glu	Glu		
	130					135					140						
Gly	Ala	Pro	Cys	Thr	Ala	Ile	Arg	Glu	Val	Ser	Leu	Leu	Lys	Asn	Leu		
145				150						155					160		
Lys	His	Ala	Asn	Ile	Val	Thr	Leu	His	Asp	Leu	Ile	His	Thr	Asp	Arg		
			165					170						175			
Ser	Leu	Thr	Leu	Val	Phe	Glu	Tyr	Leu	Asp	Ser	Asp	Leu	Lys	Gln	Tyr		
		180						185					190				
Leu	Asp	His	Cys	Gly	Asn	Leu	Met	Ser	Met	His	Asn	Val	Lys	Ile	Phe		
	195					200						205					
Met	Phe	Gln	Leu	Leu	Arg	Gly	Leu	Ala	Tyr	Cys	His	His	Arg	Lys	Ile		
	210					215					220						
Leu	His	Arg	Asp	Leu	Lys	Pro	Gln	Asn	Leu	Leu	Ile	Asn	Glu	Arg	Gly		
225				230						235					240		
Glu	Leu	Lys	Leu	Ala	Asp	Phe	Gly	Leu	Ala	Arg	Ala	Lys	Ser	Val	Pro		
			245					250						255			
Thr	Lys	Thr	Tyr	Ser	Asn	Glu	Val	Val	Thr	Leu	Trp	Tyr	Arg	Pro	Pro		
		260						265					270				
Asp	Val	Leu	Leu	Gly	Ser	Thr	Glu	Tyr	Ser	Thr	Pro	Ile	Asp	Met	Trp		
	275						280					285					
Gly	Val	Gly	Cys	Ile	His	Tyr	Glu	Met	Ala	Thr	Gly	Arg	Pro	Leu	Phe		
	290					295					300						
Pro	Gly	Ser	Thr	Val	Lys	Glu	Glu	Leu	His	Lys	Ile	Asn	Arg	Leu	Leu		
305				310						315					320		
Gly	Thr	Pro	Thr	Glu	Glu	Thr	Trp	Pro	Gly	Val	Thr	Ala	Phe	Ser	Glu		
			325					330						335			
Phe	Arg	Thr	Tyr	Ser	Phe	Pro	Cys	Tyr	Leu	Pro	Gln	Pro	Leu	Ile	Asn		
		340						345					350				
His	Ala	Pro	Arg	Leu	Asp	Thr	Asp	Gly	Ile	His	Leu	Leu	Ser	Ser	Leu		
	355					360						365					
Leu	Leu	Tyr	Glu	Ser	Lys	Ser	Arg	Met	Ser	Ala	Glu	Ala	Ala	Leu	Ser		



```

      370              375              380
His Ser Tyr Phe Arg Ser Leu Gly Glu Arg Val His Gln Leu Glu Asp
385              390              395              400
Thr Ala Ser Ile Phe Ser Leu Lys Glu Ile Gln Leu Gln Lys Asp Pro
      405              410              415
Gly Tyr Arg Gly Leu Ala Phe Gln Gln Pro Gly Arg Gly Lys Asn Arg
      420              425              430
Arg Gln Ser Ile Phe
      435              437

```

```

<210> 1223
<211> 150
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1223
Cys Thr Pro His Gly Ser Ser Ser Ser Trp Lys Ile Pro Leu Trp Pro
 1              5              10              15
Arg His Met Ser Pro Leu His Ser Cys Leu Pro Val Gly Thr Ser Thr
      20              25              30
Ser Ser Gly Pro Leu Ala Val Pro Arg Asp Cys Phe His Leu Cys Cys
      35              40              45
Leu Trp Gly Gln Leu Leu Leu Ile Ser Cys Pro Leu Ala Cys Gly Gln
 50              55              60
Gly Cys Arg Val Ala Gly Gly Gln Gln His Val Pro Gly Gln Ala Leu
 65              70              75              80
Gly Thr Leu Ser Pro Leu Val Ser Leu Leu Thr Trp Ala Gly Pro Ser
      85              90              95
Leu Asp Trp Pro His Pro Gly Ser Leu Val Thr Pro Arg Cys Pro Ile
      100              105              110
Leu Pro Ala Val Pro Val Leu Val Lys Gly Leu Gly Gly Trp Pro Pro
      115              120              125
Thr Arg Pro Ser Arg Ala Ala Pro Val Ser Gly Pro Trp Asp Gln Leu
 130              135              140
Pro Tyr Phe Pro Gly Leu
145              150

```

```

<210> 1224
<211> 276
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1224
Leu Ile Ser Pro Val Trp Gly Asn Ile Gln Arg Ser Arg Ser Val Pro
 1              5              10              15
Leu Phe Pro Ser Gly Leu Val Leu Gly Gly Ile Trp Ala Arg Gly Pro
      20              25              30
Leu Leu Ala Leu Leu Ala Ser Phe Asn Ile Ile Ser Val Leu Asn Ala
      35              40              45
Glu Cys Tyr Leu Lys Gln Ile Leu His Pro Thr Ser His Phe Thr Val
 50              55              60
Ser Glu Thr Pro Pro Leu Ser Gly Asn Asp Thr Asp Ser Leu Ser Cys
 65              70              75              80
Asp Ser Gly Ser Ser Ala Thr Ser Thr Pro Cys Val Ser Arg Leu Val

```

85										90				95			
Thr	Gly	His	His	Leu	Trp	Ala	Ser	Lys	Asn	Gly	Arg	His	Val	Leu	Gly		
100				105				110									
Leu	Ile	Glu	Asp	Tyr	Glu	Ala	Leu	Leu	Lys	Gln	Ile	Ser	Gln	Gly	Gln		
115				120				125									
Arg	Leu	Leu	Ala	Glu	Met	Asp	Ile	Gln	Thr	Gln	Glu	Ala	Pro	Ser	Ser		
130				135				140									
Thr	Ser	Gln	Glu	Leu	Gly	Thr	Lys	Gly	Pro	His	Pro	Ala	Pro	Leu	Ser		
145	150				155				160								
Lys	Phe	Val	Ser	Ser	Val	Ser	Thr	Ala	Lys	Leu	Thr	Leu	Glu	Glu	Ala		
165				170				175									
Tyr	Arg	Arg	Leu	Lys	Leu	Leu	Trp	Arg	Val	Ser	Leu	Pro	Glu	Asp	Gly		
180				185				190									
Gln	Cys	Pro	Leu	His	Cys	Glu	Gln	Ile	Gly	Glu	Met	Lys	Ala	Glu	Val		
195				200				205									
Thr	Lys	Leu	His	Lys	Lys	Leu	Phe	Glu	Gln	Glu	Lys	Lys	Leu	Gln	Asn		
210				215				220									
Thr	Met	Lys	Leu	Leu	Gln	Leu	Ser	Lys	Arg	Gln	Glu	Lys	Val	Ile	Phe		
225	230				235				240								
Asp	Gln	Leu	Val	Val	Thr	His	Lys	Ile	Leu	Arg	Lys	Ala	Arg	Gly	Asn		
245				250				255									
Leu	Glu	Leu	Arg	Pro	Gly	Gly	Ala	His	Pro	Gly	Thr	Cys	Ser	Pro	Ser		
260				265				270									
Arg	Pro	Gly	Ser														
275				276													

```
<210> 1225
<211> 270
<212> Amino acid
<213> Homo sapiens
```

<400> 1225															
Leu 1	Gly	Leu	Phe	Cys 5	Ile	Leu	Pro	Ile	Asp 10	Thr	Leu	Cys	Ala	Val 15	Leu
Glu	Arg	Asp	Thr 20	Leu	Ser	Ile	Arg	Glu	Ser 25	Arg	Leu	Phe	Gly	Ala 30	Val
Val	Arg	Trp 35	Ala	Glu	Ala	Glu	Cys 40	Gln	Arg	Gln	Gln	Leu	Pro	Val 45	Thr
Phe 50	Gly	Asn	Lys	Gln	Lys	Val 55	Leu	Gly	Lys	Ala	Leu	Ser	Leu	Ile 60	Arg
Phe 65	Pro	Leu	Met	Thr 70	Ile	Glu	Glu	Phe	Ala	Ala 75	Gly	Pro	Ala	Gln 80	Ser
Gly	Ile	Leu	Ser	Asp 85	Arg	Glu	Val	Val	Asn 90	Leu	Phe	Leu	His 95	Phe	Thr
Val	Asn	Pro	Lys 100	Pro	Arg	Val	Glu	Tyr 105	Ile	Asp	Arg	Pro	Arg 110	Cys	Cys
Leu	Arg	Gly 115	Lys	Glu	Cys	Cys	Ile 120	Asn	Arg	Phe	Gln	Gln	Val 125	Glu	Ser
Arg 130	Trp	Gly	Tyr	Ser	Gly	Thr 135	Ser	Asp	Arg	Ile	Arg 140	Phe	Thr	Val	Asn
Arg 145	Arg	Ile	Ser	Ile 150	Val	Gly	Phe	Gly	Leu	Tyr 155	Gly	Ser	Ile 160	His	Gly
Pro	Thr	Asp	Tyr 165	Gln	Val	Asn	Ile	Gln	Ile 170	Ile	Glu	Tyr	Glu 175	Lys	Lys
Gln	Thr	Leu 180	Gly	Gln	Asn	Asp	Thr	Gly 185	Phe	Ser	Cys	Asp	Gly 190	Thr	Ala
Asn	Thr	Phe 195	Arg	Val	Met	Phe	Lys 200	Glu	Pro	Ile	Glu	Ile 205	Leu	Pro	Asn
Val	Cys	Tyr	Thr	Ala	Cys	Ala	Thr	Leu	Lys	Gly	Pro	Asp	Ser	His	Tyr

210						215						220				
Gly	Thr	Lys	Gly	Leu	Lys	Lys	Val	Val	His	Glu	Thr	Pro	Ala	Ala	Ser	
225						230					235				240	
Lys	Thr	Val	Phe	Phe	Phe	Phe	Ser	Ser	Pro	Gly	Asn	Asn	Asn	Gly	Thr	
				245					250					255		
Ser	Ile	Glu	Asp	Gly	Gln	Ile	Pro	Glu	Ile	Ile	Phe	Tyr	Thr			
			260					265					270			

<210> 1226  
 <211> 273  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1226

Ser	Val	Trp	Trp	Asn	Ser	Glu	Val	Lys	Asp	Trp	Met	Gln	Lys	Lys	Arg	
1				5					10					15		
Arg	Gly	Leu	Arg	Asn	Ser	Arg	Ala	Thr	Ala	Gly	Asp	Ile	Ala	His	Tyr	
			20					25					30			
Tyr	Arg	Asp	Tyr	Val	Val	Lys	Lys	Gly	Leu	Gly	His	Asn	Phe	Val	Ser	
		35				40						45				
Gly	Ala	Val	Val	Thr	Ala	Val	Glu	Trp	Gly	Thr	Pro	Asp	Pro	Ser	Ser	
	50					55					60					
Cys	Gly	Ala	Gln	Asp	Ser	Ser	Pro	Leu	Phe	Gln	Val	Ser	Gly	Phe	Leu	
	65				70					75					80	
Thr	Arg	Asn	Gln	Ala	Gln	Gln	Pro	Phe	Ser	Leu	Trp	Ala	Arg	Asn	Val	
			85					90						95		
Val	Leu	Ala	Thr	Gly	Thr	Phe	Asp	Ser	Pro	Ala	Arg	Leu	Gly	Ile	Pro	
			100				105						110			
Gly	Glu	Ala	Leu	Pro	Phe	Ile	His	His	Glu	Leu	Ser	Ala	Leu	Glu	Ala	
		115				120						125				
Ala	Thr	Arg	Val	Gly	Ala	Val	Thr	Pro	Ala	Ser	Asp	Pro	Val	Leu	Ile	
	130					135					140					
Ile	Gly	Ala	Gly	Leu	Ser	Ala	Ala	Asp	Ala	Val	Leu	Tyr	Ala	Arg	His	
145					150				155					160		
Tyr	Asn	Ile	Pro	Val	Ile	His	Ala	Phe	Arg	Arg	Ala	Val	Asp	Asp	Pro	
			165					170					175			
Gly	Leu	Val	Phe	Asn	Gln	Leu	Pro	Lys	Met	Leu	Tyr	Pro	Glu	Tyr	His	
		180						185					190			
Lys	Val	His	Gln	Met	Met	Arg	Glu	Gln	Ser	Ile	Leu	Ser	Pro	Ser	Pro	
		195				200						205				
Tyr	Glu	Gly	Tyr	Arg	Ser	Leu	Pro	Arg	His	Gln	Leu	Leu	Cys	Phe	Lys	
	210					215				220						
Glu	Asp	Cys	Gln	Ala	Val	Phe	Gln	Asp	Leu	Glu	Gly	Val	Glu	Lys	Val	
225				230					235					240		
Phe	Gly	Val	Ser	Leu	Val	Leu	Val	Leu	Ile	Gly	Ser	His	Pro	Asp	Leu	
			245					250					255			
Ser	Phe	Leu	Pro	Gly	Ala	Gly	Leu	Thr	Leu	Gln	Trp	Ile	Leu	Thr	Ser	
			260					265					270			

Arg  
273

<210> 1227  
 <211> 86  
 <212>Amino acid  
 <213> Homo sapiens

&lt;400&gt; 1227

```

Lys Leu Arg Pro Phe Ile Phe Ser Asn Gln Ser Leu Trp Leu His Ser
 1           5           10           15
Tyr Glu Gly Ala Glu Leu Glu Lys Thr Phe Ile Lys Gly Ser Trp Ala
      20           25           30
Thr Phe Trp Val Lys Val Ala Ser Cys Trp Ala Cys Val Leu Leu Tyr
      35           40           45
Leu Gly Leu Leu Leu Ala Pro Leu Cys Trp Pro Pro Thr Gln Lys Pro
      50           55           60
Gln Pro Leu Ile Leu Arg Arg Arg His Arg Ile Ile Ser Pro Asp
      65           70           75           80
Asn Lys Tyr Pro Pro Val
              85 86

```

&lt;210&gt; 1228

&lt;211&gt; 249

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1228

```

Gln Leu Ile His Leu Ser His Gly Tyr Gln Ile His Trp Thr Asp Tyr
 1           5           10           15
Tyr Asn Val Gly Thr Gly Arg Pro Glu Phe Gly Thr Arg Ala Ala His
      20           25           30
Lys Ser Leu Ala Gly Ala Glu Leu Lys Thr Leu Lys Asp Phe Val Thr
      35           40           45
Val Leu Ala Lys Leu Phe Pro Gly Arg Pro Pro Val Lys Lys Leu Leu
      50           55           60
Glu Met Leu Gln Glu Trp Leu Ala Ser Leu Pro Leu Asp Arg Ile Pro
      65           70           75           80
Tyr Asn Ala Val Leu Asp Leu Val Asn Asn Lys Met Arg Ile Ser Gly
      85           90           95
Ile Phe Leu Thr Asn His Ile Lys Trp Val Gly Cys Gln Gly Ser Arg
      100          105          110
Ser Glu Leu Arg Gly Tyr Pro Cys Ser Leu Trp Lys Leu Phe His Thr
      115          120          125
Leu Thr Val Glu Ala Ser Thr His Pro Asp Ala Leu Val Gly Thr Gly
      130          135          140
Phe Glu Asp Asp Pro Gln Ala Val Leu Gln Thr Met Arg Arg Tyr Val
      145          150          155          160
His Thr Phe Phe Gly Cys Lys Glu Cys Gly Glu His Phe Glu Glu Met
      165          170          175
Ala Lys Glu Ser Met Asp Ser Val Lys Thr Pro Asp Gln Ala Ile Leu
      180          185          190
Trp Leu Trp Lys Lys His Asn Met Val Asn Gly Arg Leu Ala Gly Glu
      195          200          205
Lys Pro Leu Gly Met Gly Gly Ser Ala Arg Ala Glu Gly Gly Pro Gly
      210          215          220
Pro Gly Thr Ala Arg Thr Ala Arg Leu Pro Trp Gly Leu Ser Leu Ser
      225          230          235          240
Phe Ala Ala Ser Cys His Pro Leu Cys
      245          249

```

&lt;210&gt; 1229

&lt;211&gt; 800

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1229

His	Gly	Gly	Ala	Thr	Phe	Ile	Asn	Ala	Phe	Val	Thr	Thr	Pro	Met	Cys
1				5					10					15	
Cys	Pro	Ser	Arg	Ser	Ser	Met	Leu	Thr	Gly	Lys	Tyr	Val	His	Asn	His
			20					25					30		
Asn	Val	Tyr	Thr	Asn	Asn	Glu	Asn	Cys	Ser	Ser	Pro	Ser	Trp	Gln	Ala
		35					40					45			
Met	His	Glu	Pro	Arg	Thr	Phe	Ala	Val	Tyr	Leu	Asn	Asn	Thr	Gly	Tyr
	50					55					60				
Arg	Thr	Ala	Phe	Phe	Gly	Lys	Tyr	Leu	Asn	Glu	Tyr	Asn	Gly	Ser	Tyr
	65				70					75				80	
Ile	Pro	Pro	Gly	Trp	Arg	Glu	Trp	Leu	Gly	Leu	Ile	Lys	Asn	Ser	Arg
				85					90					95	
Phe	Tyr	Asn	Tyr	Thr	Val	Cys	Arg	Asn	Gly	Ile	Lys	Glu	Lys	His	Gly
			100					105					110		
Phe	Asp	Tyr	Ala	Lys	Asp	Tyr	Phe	Thr	Asp	Leu	Ile	Thr	Asn	Glu	Ser
		115					120					125			
Ile	Asn	Tyr	Phe	Lys	Met	Ser	Lys	Arg	Met	Tyr	Pro	His	Arg	Pro	Val
	130				135						140				
Met	Met	Val	Ile	Ser	His	Ala	Glu	Pro	His	Gly	Pro	Glu	Asp	Ser	Ala
	145				150					155				160	
Pro	Gln	Phe	Ser	Lys	Leu	Tyr	Pro	Asn	Ala	Ser	Gln	His	Ile	Thr	Pro
				165					170					175	
Ser	Tyr	Asn	Tyr	Ala	Pro	Asn	Met	Asp	Lys	His	Trp	Ile	Met	Gln	Tyr
		180						185					190		
Thr	Gly	Pro	Met	Leu	Pro	Ile	His	Met	Glu	Phe	Thr	Asn	Ile	Leu	Gln
	195					200						205			
Arg	Lys	Arg	Leu	Gln	Thr	Leu	Met	Ser	Val	Asp	Asp	Ser	Val	Glu	Arg
	210				215						220				
Leu	Tyr	Asn	Met	Leu	Val	Glu	Thr	Gly	Glu	Leu	Glu	Asn	Thr	Tyr	Ile
	225				230					235				240	
Ile	Tyr	Thr	Ala	Asp	His	Gly	Tyr	His	Ile	Gly	Gln	Phe	Gly	Leu	Val
			245						250				255		
Lys	Gly	Lys	Ser	Met	Pro	Tyr	Asp	Phe	Asp	Ile	Arg	Val	Pro	Phe	Phe
			260					265					270		
Ile	Arg	Gly	Pro	Ser	Val	Glu	Pro	Gly	Ser	Ile	Val	Pro	Gln	Ile	Val
	275					280						285			
Leu	Asn	Ile	Asp	Leu	Ala	Pro	Thr	Ile	Leu	Asp	Ile	Ala	Gly	Leu	Asp
	290				295						300				
Thr	Pro	Pro	Asp	Val	Asp	Gly	Lys	Ser	Val	Leu	Lys	Leu	Leu	Asp	Pro
	305				310					315				320	
Glu	Lys	Pro	Gly	Asn	Arg	Phe	Arg	Thr	Asn	Lys	Lys	Ala	Lys	Ile	Trp
			325						330				335		
Arg	Asp	Thr	Phe	Leu	Val	Glu	Arg	Gly	Lys	Phe	Leu	Arg	Lys	Lys	Glu
		340						345					350		
Glu	Ser	Ser	Lys	Asn	Ile	Gln	Gln	Ser	Asn	His	Leu	Pro	Lys	Tyr	Glu
		355				360						365			
Arg	Val	Lys	Glu	Leu	Cys	Gln	Gln	Ala	Arg	Tyr	Gln	Thr	Ala	Cys	Glu
	370				375						380				
Gln	Pro	Gly	Gln	Lys	Trp	Gln	Cys	Ile	Glu	Asp	Thr	Ser	Gly	Lys	Leu
	385				390					395				400	
Arg	Ile	His	Lys	Cys	Lys	Gly	Pro	Ser	Asp	Leu	Leu	Thr	Val	Arg	Gln
			405						410				415		
Ser	Thr	Arg	Asn	Leu	Tyr	Ala	Arg	Gly	Phe	His	Asp	Lys	Asp	Lys	Glu
		420						425					430		
Cys	Ser	Cys	Arg	Glu	Ser	Gly	Tyr	Arg	Ala	Ser	Arg	Ser	Gln	Arg	Lys
		435					440						445		
Ser	Gln	Arg	Gln	Phe	Leu	Arg	Asn	Gln	Gly	Thr	Pro	Lys	Tyr	Lys	Pro

```

      450              455              460
Arg Phe Val His Thr Arg Gln Thr Arg Ser Leu Ser Val Glu Phe Glu
465              470              475              480
Gly Glu Ile Tyr Asp Ile Asn Leu Glu Glu Glu Glu Leu Gln Val
      485              490              495
Leu Gln Pro Arg Asn Ile Ala Lys Arg His Asp Glu Gly His Lys Gly
      500              505              510
Pro Arg Asp Leu Gln Ala Ser Ser Gly Gly Asn Arg Gly Arg Met Leu
      515              520              525
Ala Asp Ser Ser Asn Ala Val Gly Pro Pro Thr Thr Val Arg Val Thr
      530              535              540
His Lys Cys Phe Ile Leu Pro Asn Asp Ser Ile His Cys Glu Arg Glu
545              550              555              560
Leu Tyr Gln Ser Ala Arg Ala Trp Lys Asp His Lys Ala Tyr Ile Asp
      565              570              575
Glu Glu Ile Glu Ala Leu Gln Asp Lys Ile Lys Asn Leu Arg Glu Val
      580              585              590
Arg Gly His Leu Lys Arg Arg Lys Pro Glu Glu Cys Ser Cys Ser Lys
      595              600              605
Gln Ser Tyr Tyr Asn Lys Glu Lys Gly Val Lys Lys Gln Glu Lys Leu
      610              615              620
Lys Ser His Leu His Pro Phe Lys Glu Ala Ala Gln Glu Val Asp Ser
625              630              635              640
Lys Leu Gln Leu Phe Lys Glu Asn Asn Arg Arg Arg Lys Lys Glu Arg
      645              650              655
Lys Glu Lys Arg Arg Gln Arg Lys Gly Glu Glu Cys Ser Leu Pro Gly
      660              665              670
Leu Thr Cys Phe Thr His Asp Asn Asn His Trp Gln Thr Ala Pro Phe
      675              680              685
Trp Asn Leu Gly Ser Phe Cys Ala Cys Thr Ser Ser Asn Asn Asn Thr
      690              695              700
Tyr Trp Cys Leu Arg Thr Val Asn Glu Thr His Asn Phe Leu Phe Cys
705              710              715              720
Glu Phe Ala Thr Gly Phe Leu Glu Tyr Phe Asp Met Asn Thr Asp Pro
      725              730              735
Tyr Gln Leu Thr Asn Thr Val His Thr Val Glu Arg Gly Ile Leu Asn
      740              745              750
Gln Leu His Val Gln Leu Met Glu Leu Arg Ser Cys Gln Gly Tyr Lys
      755              760              765
Gln Cys Asn Pro Arg Pro Lys Asn Leu Asp Val Gly Asn Lys Asp Gly
770              775              780
Gly Ser Tyr Asp Leu His Arg Gly Gln Leu Trp Asp Gly Trp Glu Gly
785              790              795              800

```

&lt;210&gt; 1230

&lt;211&gt; 698

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1230

```

His Leu Leu Ile Ala Gln Glu Leu Ala Asp Arg Val Gly Glu Gly Arg
 1              5              10              15
Ala Cys Trp Ser Leu Gly Asn Ala Tyr Val Ser Met Gly Arg Pro Ala
      20              25              30
Gln Ala Leu Thr Phe Ala Lys Lys His Leu Gln Ile Ser Gln Glu Ile
      35              40              45
Gly Asp Arg His Gly Glu Leu Thr Ala Arg Met Asn Val Ala Gln Leu

```

743

565 570 575  
 Gly Pro Ile Ser Lys Ala Glu Gly Met Ala Gly His Glu Leu Arg His  
 580 585 590  
 Ser Lys Thr Pro Ser Gln Glu Lys Gly Gln Gly Leu Val Leu Gly Met  
 595 600 605  
 Leu Thr Gly Ser Lys Ser Ser Ala Gln Ser Gly Trp Glu Val Ala Pro  
 610 615 620  
 Gly Ser Val Thr Leu Thr Gln Val Gly Gly Trp Ser Val Glu Ala Gly  
 625 630 635 640  
 Glu Ala Ser Leu Ser Ser Thr Leu Gln Thr Pro His Met Arg Thr Pro  
 645 650 655  
 Leu Leu Pro Pro Ala Gly Gly Asp Asp Ile Thr Ala Leu Ser Met Gly  
 660 665 670  
 Arg Gly Leu Thr Gly His Gln Val Arg Asp Pro Arg Thr Gly Arg Thr  
 675 680 685  
 Cys Trp Ser Leu Arg Trp Ala Pro Gly Ala  
 690 695 698

<210> 1231  
 <211> 131  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1231  
 Asn Ser Ala Ala Asp Leu Ala Ile Phe Ala Leu Trp Gly Leu Lys Pro  
 1 5 10 15  
 Val Val Tyr Leu Leu Ala Ser Ser Phe Leu Gly Leu Gly Leu His Pro  
 20 25 30  
 Ile Ser Gly His Phe Val Ala Glu His Tyr Met Phe Leu Lys Gly His  
 35 40 45  
 Glu Thr Tyr Ser Tyr Tyr Gly Pro Leu Asn Trp Ile Thr Phe Asn Val  
 50 55 60  
 Gly Tyr His Val Glu His His Asp Phe Pro Ser Ile Pro Gly Tyr Asn  
 65 70 75 80  
 Leu Pro Leu Val Arg Lys Ile Ala Pro Glu Tyr Tyr Asp His Leu Pro  
 85 90 95  
 Gln His His Ser Trp Val Lys Val Leu Trp Asp Phe Val Phe Glu Asp  
 100 105 110  
 Ser Leu Gly Pro Tyr Ala Arg Val Lys Arg Val Tyr Arg Leu Ala Lys  
 115 120 125  
 Asp Gly Leu  
 130 131

<210> 1232  
 <211> 71  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1232  
 Gln Glu Ser Gly Phe Ser Cys Lys Gly Pro Gly Gln Asn Val Ala Val  
 1 5 10 15  
 Thr Arg Ala His Pro Asp Ser Gln Gly Arg Arg Arg Arg Pro Glu Arg  
 20 25 30  
 Gly Ala Arg Gly Gly Gln Val Phe Tyr Asn Ser Glu Tyr Gly Glu Leu



		35					40					45			
Ser	Glu	Pro	Ser	Glu	Glu	Asp	His	Cys	Ser	Pro	Ser	Ala	Arg	Val	Thr
	50					55					60				
Phe	Phe	Thr	Asp	Asn	Ser	Tyr									
65					70	71									

```
<210> 1233
<211> 146
<212> Amino acid
<213> Homo sapiens
```

[illegible]

```
<210> 1234
<211> 299
<212>Amino acid
<213> Homo sapiens
```

<400> 1234															
Met	Ala	Ser	Ala	Ala	Cys	Ser	Met	Asp	Pro	Ile	Asp	Ser	Phe	Glu	Leu
1				5					10					15	
Leu	Asp	Leu	Leu	Phe	Asp	Arg	Gln	Asp	Gly	Ile	Leu	Arg	His	Val	Glu
			20					25					30		
Leu	Gly	Glu	Gly	Trp	Gly	His	Val	Lys	Asp	Gln	Val	Leu	Pro	Asn	Pro
		35				40						45			
Asp	Ser	Asp	Asp	Phe	Leu	Ser	Ser	Ile	Leu	Gly	Ser	Gly	Asp	Ser	Leu
	50					55					60				
Pro	Ser	Ser	Pro	Leu	Trp	Ser	Pro	Glu	Gly	Ser	Asp	Ser	Gly	Ile	Ser
65					70					75					80
Glu	Asp	Leu	Pro	Ser	Asp	Pro	Gln	Asp	Thr	Pro	Pro	Arg	Ser	Gly	Pro
				85					90					95	
Ala	Thr	Ser	Pro	Ala	Gly	Cys	His	Pro	Ala	Gln	Pro	Gly	Lys	Gly	Pro
			100					105					110		
Cys	Leu	Ser	Tyr	His	Pro	Gly	Asn	Ser	Cys	Ser	Thr	Thr	Thr	Pro	Gly

```

      115              120              125
Pro Val Ile Gln Gln Gln His His Leu Gly Ala Ser Tyr Leu Leu Arg
      130              135              140
Pro Gly Ala Gly His Cys Gln Glu Leu Val Leu Thr Glu Asp Glu Lys
145              150              155              160
Lys Leu Leu Ala Lys Glu Gly Ile Thr Leu Pro Thr Gln Leu Pro Leu
      165              170              175
Thr Lys Tyr Glu Glu Arg Val Leu Lys Lys Ile Arg Arg Lys Ile Arg
      180              185              190
Asn Lys Gln Ser Ala Gln Glu Ser Arg Lys Lys Lys Lys Glu Tyr Ile
      195              200              205
Asp Gly Leu Glu Thr Arg Ser Cys Cys Cys Pro Leu Pro Ser Ser Ser
      210              215              220
Ser Pro Pro Ser Ala Leu Leu Ala Pro Thr Lys Pro Arg Ala Leu Gly
225              230              235              240
Thr Leu Arg Leu Tyr Glu Cys Ser Pro Glu Leu Cys Thr Thr Met Leu
      245              250              255
Pro Pro Ala Trp Leu Leu Met Leu Cys Gln Ala Pro Arg Pro Gln Asp
      260              265              270
Pro Asp Pro Arg Leu Thr Gln Pro Glu Lys Ser Leu Gln Glu Ala Pro
      275              280              285
Gly Gln Thr Gly Ala Ser Arg Thr Pro Arg Thr
      290              295              299

```

```

<210> 1235
<211> 1098
<212> Amino acid
<213> Homo sapiens

```

```

      <400> 1235
Ala Arg Gly Arg Arg Ser Arg Pro Val Trp Ala Ala Ser Trp Gly Gly
 1              5              10              15
Arg Gly Arg Pro Ala Ala Arg Arg Arg Pro Arg Gly Leu Ala Ala Thr
      20              25              30
Met Gly Phe Glu Leu Asp Arg Phe Asp Gly Asp Val Asp Pro Asp Leu
      35              40              45
Lys Cys Ala Leu Cys His Lys Val Leu Glu Asp Pro Leu Thr Thr Pro
      50              55              60
Cys Gly His Val Phe Cys Ala Gly Cys Val Leu Pro Trp Val Val Gln
      65              70              75              80
Glu Gly Ser Cys Pro Ala Arg Cys Arg Gly Arg Leu Ser Ala Lys Glu
      85              90              95
Leu Asn His Val Leu Pro Leu Lys Arg Leu Ile Leu Lys Leu Asp Ile
      100              105              110
Lys Cys Ala Tyr Ala Thr Arg Gly Cys Gly Arg Val Val Lys Leu Gln
      115              120              125
Gln Leu Pro Glu His Leu Glu Arg Cys Asp Phe Ala Pro Ala Arg Cys
      130              135              140
Arg His Ala Gly Cys Gly Gln Val Leu Leu Arg Arg Asp Val Glu Ala
145              150              155              160
His Met Arg Asp Ala Cys Asp Ala Arg Pro Val Gly Arg Cys Gln Glu
      165              170              175
Gly Cys Gly Leu Pro Leu Thr His Gly Glu Gln Arg Ala Gly Gly His
      180              185              190
Cys Cys Ala Arg Ala Leu Arg Ala His Asn Gly Ala Leu Gln Ala Arg
      195              200              205
Leu Gly Ala Leu His Lys Ala Leu Lys Lys Glu Ala Leu Arg Ala Gly
      210              215              220
Lys Arg Glu Lys Ser Leu Val Ala Gln Leu Ala Ala Ala Gln Leu Glu

```

225		230		235		240									
Leu	Gln	Met	Thr	Ala	Leu	Arg	Tyr	Gln	Lys	Lys	Phe	Thr	Glu	Tyr	Ser
				245					250					255	
Ala	Arg	Leu	Asp	Ser	Leu	Ser	Arg	Cys	Val	Ala	Ala	Pro	Pro	Gly	Gly
			260					265					270		
Lys	Gly	Glu	Glu	Thr	Lys	Ser	Leu	Thr	Leu	Val	Leu	His	Arg	Asp	Ser
		275					280					285			
Gly	Ser	Leu	Gly	Phe	Asn	Ile	Ile	Gly	Gly	Arg	Pro	Ser	Val	Asp	Asn
	290				295					300					
His	Asp	Gly	Ser	Ser	Ser	Glu	Gly	Ile	Phe	Val	Ser	Lys	Ile	Val	Asp
305					310				315					320	
Ser	Gly	Pro	Ala	Ala	Lys	Glu	Gly	Gly	Leu	Gln	Ile	His	Asp	Arg	Ile
			325					330						335	
Ile	Glu	Val	Asn	Gly	Arg	Asp	Leu	Ser	Arg	Ala	Thr	His	Asp	Gln	Ala
		340					345					350			
Val	Glu	Ala	Phe	Lys	Thr	Ala	Lys	Glu	Pro	Ile	Val	Val	Gln	Val	Leu
		355					360				365				
Arg	Arg	Thr	Pro	Arg	Thr	Lys	Met	Phe	Thr	Pro	Pro	Ser	Glu	Ser	Gln
	370				375					380					
Leu	Val	Asp	Thr	Gly	Thr	Gln	Thr	Asp	Ile	Thr	Phe	Glu	His	Ile	Met
385					390				395					400	
Ala	Leu	Thr	Lys	Met	Ser	Ser	Pro	Ser	Pro	Pro	Val	Leu	Asp	Pro	Tyr
			405					410					415		
Leu	Leu	Pro	Glu	Glu	His	Pro	Ser	Ala	His	Glu	Tyr	Tyr	Asp	Pro	Asn
		420						425					430		
Asp	Tyr	Ile	Gly	Asp	Ile	His	Gln	Glu	Met	Asp	Arg	Glu	Glu	Leu	Glu
	435				440					445					
Leu	Glu	Glu	Val	Asp	Leu	Tyr	Arg	Met	Asn	Ser	Gln	Asp	Lys	Leu	Gly
	450				455				460						
Leu	Thr	Val	Cys	Tyr	Arg	Thr	Asp	Asp	Glu	Asp	Asp	Ile	Gly	Ile	Tyr
465					470				475					480	
Ile	Ser	Glu	Ile	Asp	Pro	Asn	Ser	Ile	Ala	Ala	Lys	Asp	Gly	Arg	Ile
			485					490						495	
Arg	Glu	Gly	Asp	Arg	Ile	Ile	Gln	Ile	Asn	Gly	Ile	Glu	Val	Gln	Asn
		500						505					510		
Arg	Glu	Glu	Ala	Val	Ala	Leu	Leu	Thr	Ser	Glu	Glu	Asn	Lys	Asn	Phe
	515					520						525			
Ser	Leu	Leu	Ile	Ala	Arg	Ala	Glu	Leu	Gln	Leu	Asp	Glu	Gly	Trp	Met
	530				535						540				
Asp	Asp	Asp	Arg	Asn	Asp	Phe	Leu	Asp	Asp	Leu	His	Met	Asp	Met	Leu
545					550					555				560	
Glu	Glu	Gln	His	His	Gln	Ala	Met	Gln	Phe	Thr	Ala	Ser	Val	Leu	Gln
			565						570					575	
Gln	Lys	Lys	His	Asp	Glu	Asp	Gly	Gly	Thr	Thr	Asp	Thr	Ala	Thr	Ile
		580						585					590		
Leu	Ser	Asn	Gln	His	Glu	Lys	Asp	Ser	Gly	Val	Gly	Arg	Thr	Asp	Glu
	595					600					605				
Ser	Thr	Arg	Asn	Asp	Glu	Ser	Ser	Glu	Gln	Glu	Asn	Asn	Gly	Asp	Asp
	610				615						620				
Ala	Thr	Ala	Ser	Ser	Asn	Pro	Leu	Ala	Gly	Gln	Arg	Lys	Leu	Thr	Cys
625					630					635				640	
Ser	Gln	Asp	Thr	Leu	Gly	Ser	Gly	Asp	Leu	Pro	Phe	Ser	Asn	Lys	Ser
			645					650						655	
Phe	Ile	Ser	Pro	Glu	Cys	Thr	Gly	Ala	Ala	Tyr	Leu	Gly	Ile	Pro	Val
		660					665						670		
Asp	Glu	Cys	Glu	Arg	Phe	Arg	Glu	Leu	Leu	Glu	Leu	Lys	Cys	Gln	Val
	675					680					685				
Lys	Ser	Ala	Thr	Pro	Tyr	Gly	Leu	Tyr	Tyr	Pro	Ser	Gly	Pro	Leu	Asp
	690				695						700				
Ala	Gly	Lys	Ser	Asp	Pro	Glu	Ser	Val	Asp	Lys	Glu	Leu	Glu	Leu	Leu
705					710					715				720	
Asn	Glu	Glu	Leu	Arg	Ser	Ile	Glu	Leu	Glu	Cys	Leu	Ser	Ile	Val	Arg
			725					730						735	
Ala	His	Lys	Met	Gln	Gln	Leu	Lys	Glu	Gln	Tyr	Arg	Glu	Ser	Trp	Met

```

      740      745      750
Leu His Asn Ser Gly Phe Arg Asn Tyr Asn Thr Ser Ile Asp Val Arg
      755      760      765
Arg His Glu Leu Ser Asp Ile Thr Glu Leu Pro Glu Lys Ser Asp Lys
      770      775      780
Asp Ser Ser Ser Ala Tyr Asn Thr Gly Glu Ser Cys Arg Ser Thr Pro
785      790      795      800
Leu Thr Leu Glu Ile Ser Pro Asp Asn Ser Leu Arg Arg Ala Ala Glu
      805      810      815
Gly Ile Ser Cys Pro Ser Ser Glu Gly Ala Val Gly Thr Thr Glu Ala
      820      825      830
Tyr Gly Pro Ala Ser Lys Asn Leu Leu Ser Ile Thr Glu Asp Pro Glu
      835      840      845
Val Gly Thr Pro Thr Tyr Ser Pro Ser Leu Lys Glu Leu Asp Pro Asn
      850      855      860
Gln Pro Leu Glu Ser Lys Glu Arg Arg Ala Ser Asp Gly Ser Arg Ser
865      870      875      880
Pro Thr Pro Ser Gln Lys Leu Gly Ser Ala Tyr Leu Pro Ser Tyr His
      885      890      895
His Ser Pro Tyr Lys His Ala His Ile Pro Ala His Ala Gln His Tyr
      900      905      910
Gln Ser Tyr Met Gln Leu Ile Gln Gln Lys Ser Ala Val Glu Tyr Ala
      915      920      925
Gln Ser Gln Met Ser Leu Val Ser Met Cys Lys Asp Leu Ser Ser Pro
930      935      940
Thr Pro Ser Glu Pro Arg Met Glu Trp Lys Val Lys Ile Arg Ser Asp
945      950      955      960
Gly Thr Arg Tyr Ile Thr Lys Arg Pro Val Arg Asp Arg Leu Leu Arg
      965      970      975
Glu Arg Ala Leu Lys Ile Arg Glu Glu Arg Ser Gly Met Thr Thr Asp
      980      985      990
Asp Asp Ala Val Ser Glu Met Lys Met Gly Arg Tyr Trp Ser Lys Glu
      995      1000      1005
Glu Arg Lys Gln His Leu Val Lys Ala Lys Glu Gln Arg Arg Arg Arg
1010      1015      1020
Glu Phe Met Met Gln Ser Arg Leu Asp Cys Leu Lys Glu Gln Gln Ala
1025      1030      1035      1040
Ala Asp Asp Arg Lys Glu Met Asn Ile Leu Glu Leu Ser His Lys Lys
      1045      1050      1055
Met Met Lys Lys Arg Asn Lys Lys Ile Phe Asp Asn Trp Met Thr Ile
      1060      1065      1070
Gln Glu Leu Leu Thr His Gly Thr Lys Ser Pro Asp Gly Thr Arg Val
      1075      1080      1085
Tyr Asn Ser Phe Leu Ser Val Thr Thr Val
1090      1095      1098

```

&lt;210&gt; 1236

&lt;211&gt; 51

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1236

```

Phe Phe Phe Leu Val Glu Met Gly Phe Cys His Val Gly Gln Gly Gly
1      5      10      15
Leu Thr Leu Ile Gly Ser Ser Asn Leu Pro Ala Ser Ala Ser Lys Ser
      20      25      30
Ala Gly Ile Thr Gly Val Ser His Cys Ala Arg Pro Asp Phe Lys Ser
      35      40      45
Cys Val Glu

```

50 51

<210> 1237  
 <211> 70  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1237  
 Leu Ala Gly Arg Lys Val Leu Leu Phe Val Ser Gly Tyr Val Val Gly  
 1 5 10 15  
 Trp Gly Pro Ile Thr Trp Leu Leu Met Ser Glu Val Leu Pro Leu Arg  
 20 25 30  
 Ala Arg Gly Val Ala Ser Gly Leu Cys Val Leu Ala Ser Trp Leu Thr  
 35 40 45  
 Ala Phe Val Leu Thr Lys Ser Phe Leu Pro Gly Gly Val Ser Val Gln  
 50 55 60  
 Pro Gln Ala Pro Gly Pro  
 65 70

<210> 1238  
 <211> 114  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1238  
 Phe Trp Ala Pro Gly Pro Pro Gly Val Gly Ala Ala Val Gly Asp Ala  
 1 5 10 15  
 Ser Thr Arg Ser Leu Arg Glu Ser Cys Pro Ser Pro Ser Pro Gly Arg  
 20 25 30  
 Leu Arg Arg Thr Thr Ala Pro Trp Ser Ser Gln Ala Arg Ala Ala Ala  
 35 40 45  
 Pro Ala Pro Ser Ser Ser Cys Arg Gly Pro Asp Gly Ala Ser Ser Pro  
 50 55 60  
 Arg Asp Leu Pro Trp Arg Pro Trp Lys Ile Leu Arg Arg Thr Pro Leu  
 65 70 75 80  
 Ser Gly Asp Val Glu Leu Ser Gln Val His Pro Asp Gln Arg Ile Leu  
 85 90 95  
 Arg Arg Phe Ile Leu Ser Arg Thr Cys Gly Asn Thr Ile Pro Gly Met  
 100 105 110  
 Ala Glu  
 114

<210> 1239  
 <211> 174  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1239  
 Met Arg Arg Phe Leu Ser Lys Val Tyr Ser Phe Pro Met Arg Lys Leu

```

1           5           10           15
Ile Leu Phe Leu Val Phe Pro Val Val Arg Gln Thr Pro Thr Gln His
20           25           30
Phe Lys Asn Gln Phe Pro Ala Leu His Trp Glu His Glu Leu Gly Leu
35           40           45
Ala Phe Thr Lys Asn Arg Met Asn Tyr Thr Asn Lys Phe Leu Leu Ile
50           55           60
Pro Glu Ser Gly Asp Tyr Phe Ile Tyr Ser Gln Val Thr Phe Arg Gly
65           70           75           80
Met Thr Ser Glu Cys Ser Glu Ile Arg Gln Ala Gly Arg Pro Asn Lys
85           90           95
Pro Asp Ser Ile Thr Val Val Ile Thr Lys Val Thr Asp Ser Tyr Pro
100          105          110
Glu Pro Thr Gln Leu Leu Met Gly Thr Lys Ser Val Cys Glu Val Gly
115          120          125
Ser Asn Trp Phe Gln Pro Ile Tyr Leu Gly Ala Met Phe Ser Leu Gln
130          135          140
Glu Gly Asp Lys Leu Met Val Asn Val Ser Asp Ile Ser Leu Val Asp
145          150          155          160
Tyr Thr Lys Glu Asp Lys Thr Phe Phe Gly Ala Phe Leu Leu
165          170          174

```

<210> 1240  
 <211> 425  
 <212> Amino acid  
 <213> Homo sapiens

```

<400> 1240
Phe Val Trp Asp Glu Val Ala Gln Arg Ser Gly Cys Glu Glu Arg Trp
1           5           10           15
Leu Val Ile Asp Arg Lys Val Tyr Asn Ile Ser Glu Phe Thr Arg Arg
20           25           30
His Pro Gly Gly Ser Arg Val Ile Ser His Tyr Ala Gly Gln Asp Ala
35           40           45
Thr Asp Pro Phe Val Ala Phe His Ile Asn Lys Gly Leu Val Lys Lys
50           55           60
Tyr Met Asn Ser Leu Leu Ile Gly Glu Leu Ser Pro Glu Gln Pro Ser
65           70           75           80
Phe Glu Pro Thr Lys Asn Lys Glu Leu Thr Asp Glu Phe Arg Glu Leu
85           90           95
Arg Ala Thr Val Glu Arg Met Gly Leu Met Lys Ala Asn His Val Phe
100          105          110
Phe Leu Leu Tyr Leu Leu His Ile Leu Leu Leu Asp Gly Ala Ala Trp
115          120          125
Leu Thr Leu Trp Val Phe Gly Thr Ser Phe Leu Pro Phe Leu Leu Cys
130          135          140
Ala Val Leu Leu Ser Ala Val Gln Ala Gln Ala Gly Trp Leu Gln His
145          150          155          160
Asp Phe Gly His Leu Ser Val Phe Ser Thr Ser Lys Trp Asn His Leu
165          170          175
Leu His His Phe Val Ile Gly His Leu Lys Gly Ala Pro Ala Ser Trp
180          185          190
Trp Asn His Met His Phe Gln His His Ala Lys Pro Asn Cys Phe Arg
195          200          205
Lys Asp Pro Asp Ile Asn Met His Pro Phe Phe Phe Ala Leu Gly Lys
210          215          220
Ile Leu Ser Val Glu Leu Gly Lys Gln Lys Lys Lys Tyr Met Pro Tyr
225          230          235          240
Asn His Gln His Lys Tyr Phe Phe Leu Ile Gly Pro Pro Ala Leu Leu

```

```

                245                250                255
Pro Leu Tyr Phe Gln Trp Tyr Ile Phe Tyr Phe Val Ile Gln Arg Lys
                260                265                270
Lys Trp Val Asp Leu Ala Trp Met Ile Thr Phe Tyr Val Arg Phe Phe
                275                280                285
Leu Thr Tyr Val Pro Leu Leu Gly Leu Lys Ala Phe Leu Gly Leu Phe
                290                295                300
Phe Ile Val Arg Phe Leu Glu Ser Asn Trp Phe Val Trp Val Thr Gln
305                310                315                320
Met Asn His Ile Pro Met His Ile Asp His Asp Arg Asn Met Asp Trp
                325                330                335
Val Ser Thr Gln Leu Gln Ala Thr Cys Asn Val His Lys Ser Ala Phe
                340                345                350
Asn Asp Trp Phe Ser Gly His Leu Asn Phe Gln Ile Glu His His Leu
                355                360                365
Phe Pro Thr Met Pro Arg His Asn Tyr His Lys Val Ala Pro Leu Val
                370                375                380
Gln Ser Leu Cys Ala Lys His Gly Ile Glu Tyr Gln Ser Lys Pro Leu
385                390                395                400
Leu Ser Ala Phe Ala Asp Ile Ile His Ser Leu Lys Glu Ser Gly Gln
                405                410                415
Leu Trp Leu Asp Ala Tyr Leu His Gln
                420                425

```

<210> 1241  
 <211> 152  
 <212>Amino acid  
 <213> Homo sapiens

```

    <400> 1241
Gln Cys Gly Gly Ile Pro Tyr Asn Thr Thr Gln Phe Leu Met Asn Asp
 1                5                10                15
Arg Asp Pro Glu Glu Pro Asn Leu Asp Val Pro His Gly Ile Ser His
                20                25                30
Pro Gly Ser Ser Gly Glu Ser Glu Ala Gly Asp Ser Asp Gly Arg Gly
                35                40                45
Arg Ala His Gly Glu Phe Gln Arg Lys Asp Phe Ser Glu Thr Tyr Glu
                50                55                60
Arg Phe His Thr Glu Ser Leu Gln Gly Arg Ser Lys Gln Glu Leu Val
                65                70                75                80
Arg Asp Tyr Leu Glu Leu Glu Lys Arg Leu Ser Gln Ala Glu Glu Glu
                85                90                95
Thr Arg Arg Leu Gln Gln Leu Gln Ala Cys Thr Gly Gln Gln Ser Cys
                100                105                110
Arg Gln Val Glu Glu Leu Ala Ala Glu Val Gln Arg Leu Arg Thr Glu
                115                120                125
Asn Gln Arg Leu Arg Gln Glu Asn Gln Met Trp Asn Arg Glu Gly Cys
                130                135                140
Arg Cys Asp Glu Glu Pro Gly Thr
145                150                152

```

<210> 1242  
 <211> 191  
 <212>Amino acid  
 <213> Homo sapiens

&lt;400&gt; 1242

```

Ser Pro Glu Arg Ser Ser Leu Ser Val Gly Arg Glu Lys Ala Met Glu
 1          5          10          15
Val Pro Pro Pro Ala Pro Arg Ser Phe Leu Cys Arg Ala Leu Cys Leu
          20          25          30
Phe Pro Arg Val Phe Ala Ala Glu Ala Val Thr Ala Asp Ser Glu Val
          35          40          45
Leu Glu Glu Arg Gln Lys Arg Leu Pro Tyr Val Pro Glu Pro Tyr Tyr
          50          55          60
Pro Glu Ser Gly Trp Asp Arg Leu Arg Glu Leu Phe Gly Lys Asp Val
          65          70          75          80
Thr Gly Ser Leu Phe Arg Ile Asn Val Gly Leu Arg Gly Leu Val Ala
          85          90          95
Gly Gly Ile Ile Gly Ala Leu Leu Gly Thr Pro Val Gly Gly Leu Leu
          100          105          110
Met Ala Phe Gln Lys Tyr Ser Gly Glu Thr Val Gln Glu Arg Lys Gln
          115          120          125
Lys Asp Arg Lys Ala Leu His Glu Leu Lys Leu Glu Glu Trp Lys Gly
          130          135          140
Arg Leu Gln Val Thr Glu His Leu Pro Glu Lys Ile Glu Ser Ser Leu
          145          150          155          160
Gln Glu Asp Glu Pro Glu Asn Asp Ala Lys Lys Ile Glu Ala Leu Leu
          165          170          175
Asn Leu Pro Arg Asn Pro Ser Val Ile Asp Lys Gln Asp Lys Asp
          180          185          190 191

```

&lt;210&gt; 1243

&lt;211&gt; 381

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1243

```

Arg Ser Leu Gly Leu Ala Val Thr Glu Met Val Pro Trp Val Arg Thr
 1          5          10          15
Met Gly Gln Lys Leu Lys Gln Arg Leu Arg Leu Asp Val Gly Arg Glu
          20          25          30
Ile Cys Arg Gln Tyr Pro Leu Phe Cys Phe Leu Leu Leu Cys Leu Ser
          35          40          45
Ala Ala Ser Leu Leu Leu Asn Arg Tyr Ile His Ile Leu Met Ile Phe
          50          55          60
Trp Ser Phe Val Ala Gly Val Val Thr Phe Tyr Cys Ser Leu Gly Pro
          65          70          75          80
Asp Ser Leu Leu Pro Asn Ile Phe Phe Thr Ile Lys Tyr Lys Pro Lys
          85          90          95
Gln Leu Gly Leu Gln Glu Leu Phe Pro Gln Gly His Ser Cys Ala Val
          100          105          110
Cys Gly Lys Val Lys Cys Lys Arg His Arg Pro Ser Leu Leu Glu
          115          120          125
Asn Tyr Gln Pro Trp Leu Asp Leu Lys Ile Ser Ser Lys Val Asp Ala
          130          135          140
Ser Leu Ser Glu Val Leu Glu Leu Val Leu Glu Asn Phe Val Tyr Pro
          145          150          155          160
Trp Tyr Arg Asp Val Thr Asp Asp Glu Ser Phe Val Asp Glu Leu Arg
          165          170          175
Ile Thr Leu Arg Phe Phe Ala Ser Val Leu Ile Arg Arg Ile His Lys
          180          185          190
Val Asp Ile Pro Ser Ile Ile Thr Lys Lys Leu Leu Lys Ala Ala Met

```



```

      195              200              205
Lys His Ile Glu Val Ile Val Lys Ala Arg Gln Lys Val Lys Asn Thr
      210              215              220
Glu Phe Leu Gln Gln Ala Ala Leu Glu Glu Tyr Gly Pro Glu Leu His
      225              230              235              240
Val Ala Leu Arg Ser Arg Arg Asp Glu Leu His Tyr Leu Arg Lys Leu
      245              250              255
Thr Glu Leu Leu Phe Pro Tyr Ile Leu Pro Pro Lys Ala Thr Asp Cys
      260              265              270
Arg Ser Leu Thr Leu Leu Ile Arg Glu Ile Leu Ser Gly Ser Val Phe
      275              280              285
Leu Pro Ser Leu Asp Phe Leu Ala Asp Pro Asp Thr Val Asn His Leu
      290              295              300
Leu Ile Ile Phe Ile Asp Asp Ser Pro Pro Glu Lys Ala Thr Glu Pro
      305              310              315              320
Ala Ser Pro Leu Val Pro Phe Leu Gln Lys Phe Ala Glu Pro Arg Asn
      325              330              335
Lys Lys Pro Ser Val Leu Lys Leu Glu Leu Lys Gln Ile Arg Glu Gln
      340              345              350
Gln Asp Leu Leu Phe Arg Phe Met Asn Phe Leu Lys Gln Glu Gly Ala
      355              360              365
Val His Val Leu His Val Leu Phe Asp Cys Gly Gly Ile
      370              375              380 381

```

&lt;210&gt; 1244

&lt;211&gt; 371

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1244

```

      1              5              10              15
Gln Ser Leu Ala Glu Val Leu Gln Gln Leu Gly Ala Ser Ser Glu Leu
      20              25              30
Gln Ala Val Leu Ser Tyr Ile Phe Pro Thr Tyr Gly Val Thr Pro Asn
      35              40              45
His Ser Ala Phe Ser Met His Ala Leu Leu Val Asn His Tyr Met Lys
      50              55              60
Gly Gly Phe Tyr Pro Arg Gly Val Thr Ser Glu Ile Ala Phe His Thr
      65              70              75              80
Ile Pro Val Ile Gln Arg Ala Gly Gly Ala Val Leu Thr Lys Ala Thr
      85              90              95
Val Gln Ser Val Leu Leu Asp Ser Ala Gly Lys Ala Cys Gly Val Ser
      100              105              110
Val Lys Lys Gly His Glu Leu Val Asn Ile Tyr Cys Pro Ile Val Val
      115              120              125
Ser Asn Ala Gly Leu Phe Asn Thr Tyr Glu His Leu Leu Pro Gly Asn
      130              135              140
Ala Arg Cys Leu Pro Gly Val Lys Gln Gln Leu Gly Thr Val Arg Pro
      145              150              155              160
Gly Leu Gly Met Thr Ser Val Phe Ile Cys Leu Arg Gly Thr Lys Glu
      165              170              175
Asp Leu His Leu Pro Ser Thr Asn Tyr Tyr Val Tyr Tyr Asp Thr Asp
      180              185              190
Met Asp Gln Ala Met Glu Arg Tyr Val Ser Met Pro Arg Glu Glu Ala
      195              200              205
Ala Glu His Ile Pro Leu Leu Phe Ala Phe Pro Ser Ala Lys Asp
      210              215              220
Pro Thr Trp Glu Asp Arg Phe Pro Gly Arg Ser Thr Met Ile Met Leu
      220
Ile Pro Thr Ala Tyr Glu Trp Phe Glu Glu Trp Gln Ala Glu Leu Lys

```

```

225          230          235          240
Gly Lys Arg Gly Ser Asp Tyr Glu Thr Phe Lys Asn Ser Phe Val Glu
          245          250          255
Ala Ser Met Ser Val Val Leu Lys Leu Phe Pro Gln Leu Glu Gly Lys
          260          265          270
Val Glu Ser Val Thr Ala Gly Ser Pro Leu Thr Asn Gln Phe Tyr Leu
          275          280          285
Ala Ala Pro Arg Gly Ala Cys Tyr Gly Ala Asp His Asp Leu Gly Arg
          290          295          300
Leu His Pro Cys Val Met Ala Ser Leu Arg Ala Gln Ser Pro Ile Pro
305          310          315          320
Asn Leu Tyr Leu Thr Gly Gln Asp Ile Phe Thr Cys Gly Leu Val Gly
          325          330          335
Ala Leu Gln Gly Ala Leu Leu Cys Ser Ser Thr Ile Leu Lys Arg Asn
          340          345          350
Leu Tyr Ser Asp Leu Lys Asn Leu Asp Ser Arg Ile Arg Ala Gln Lys
          355          360          365
Lys Lys Asn
          370 371

```

&lt;210&gt; 1245

&lt;211&gt; 295

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

```

          <400> 1245
Arg Pro Gln Glu Thr Arg Val Leu Gln Val Ser Cys Gly Arg Ala His
 1          5          10          15
Ser Leu Val Leu Thr Asp Arg Glu Gly Val Phe Ser Met Gly Asn Asn
          20          25          30
Ser Tyr Gly Gln Cys Gly Arg Lys Val Val Glu Asn Glu Ile Tyr Ser
          35          40          45
Glu Ser His Arg Val His Arg Met Gln Asp Phe Asp Gly Gln Val Val
          50          55          60
Gln Val Ala Cys Gly Gln Asp His Ser Leu Phe Leu Thr Asp Lys Gly
          65          70          75          80
Glu Val Tyr Ser Cys Gly Trp Gly Ala Asp Gly Gln Thr Gly Leu Gly
          85          90          95
His Tyr Asn Ile Thr Ser Ser Pro Thr Lys Leu Gly Gly Asp Leu Ala
          100          105          110
Gly Val Asn Val Ile Gln Val Ala Thr Tyr Gly Asp Cys Cys Leu Ala
          115          120          125
Val Ser Ala Asp Gly Gly Leu Phe Gly Trp Gly Asn Ser Glu Tyr Leu
          130          135          140
Gln Leu Ala Ser Val Thr Asp Ser Thr Gln Val Asn Val Pro Arg Cys
145          150          155          160
Leu His Phe Ser Gly Val Gly Lys Val Arg Gln Ala Ala Cys Gly Gly
          165          170          175
Thr Gly Cys Ala Val Leu Asn Gly Glu Gly His Val Phe Val Trp Gly
          180          185          190
Tyr Gly Ile Leu Gly Lys Gly Pro Asn Leu Val Glu Ser Ala Val Pro
          195          200          205
Glu Met Ile Pro Pro Thr Leu Phe Gly Leu Thr Glu Phe Asn Pro Glu
          210          215          220
Ile Gln Val Ser Arg Ile Arg Cys Gly Leu Ser His Phe Ala Ala Leu
225          230          235          240
Thr Asn Lys Gly Glu Leu Phe Val Trp Gly Lys Asn Ile Arg Gly Cys
          245          250          255
Leu Gly Ile Gly Arg Leu Glu Asp Gln Tyr Phe Pro Trp Arg Val Thr

```

260 265 270  
 Met Pro Gly Glu Pro Val Asp Val Ala Cys Gly Val Asp His Met Val  
 275 280 285  
 Thr Leu Ala Lys Ser Phe Ile  
 290 295

<210> 1246  
 <211> 172  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1246  
 Leu Pro Phe Arg Glu Trp Leu Met Ile Val Val Ser Leu Ser Ala Ala  
 1 5 10 15  
 Ala Val Ala Ala Ala Phe Met Ala Lys Cys Arg Met Val Leu Ser Ser  
 20 25 30  
 Arg Tyr Phe Cys Ser His Phe Val Met Ser Ala Ser Arg Ala Arg Ile  
 35 40 45  
 Arg Ser Ser Phe Ser Arg Thr Ser Ser Arg Arg Ala Gly Ala Leu Tyr  
 50 55 60  
 Ser Gly Met Leu Ala Gly Trp Pro Phe Pro Cys Phe Cys Trp Val Leu  
 65 70 75 80  
 Ser Ala Ser Ser Ser Leu Ser Ser Gln Val Arg Ser Leu Arg Ser Ile  
 85 90 95  
 Cys Ser Arg Phe Ser His Ala Asp Cys Ser Trp Val Arg Ala Cys Cys  
 100 105 110  
 Ser Phe Ser Thr Phe Ser Thr Tyr Ala Cys Phe Ser Arg Asn Ser Ser  
 115 120 125  
 Ser Ser Leu Met Thr Leu Ala Trp Ala Leu Leu Lys Ala Trp Ser Arg  
 130 135 140  
 Ile Ser Met Cys Leu Arg Trp Ser Ser Leu Ala Val Arg Thr Ala Ala  
 145 150 155 160  
 Asn Ser Ile Ser Asn Phe Ser Phe Ser Phe Lys Asn  
 165 170 172

<210> 1247  
 <211> 361  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1247  
 Met Gln Ala Val Arg Ala Thr Ala Ser Gln Ser Leu Ser Cys Ala Arg  
 1 5 10 15  
 Ala Pro Arg Glu Pro Thr Gln His Ala Leu Arg Ala His Trp Phe Pro  
 20 25 30  
 Pro Ala Ala Ala Val Gln Pro Ser Pro His Ser Gly Val Ala Ala Ala  
 35 40 45  
 Ala Gly Thr Trp Ser Ser Ala Phe Arg Gly Glu His Pro Leu Val Ser  
 50 55 60  
 Ser Gly Leu Leu Leu Gly Val Arg Glu Gln Ser Phe Arg Leu Leu Arg  
 65 70 75 80  
 Ser Lys Ala Gly Thr His Met Tyr Leu Glu His Thr Ser His Cys Pro  
 85 90 95  
 His His Asp Asp Asp Thr Ala Met Asp Thr Pro Leu Pro Arg Pro Arg

```

      100      105      110
Pro Leu Leu Ala Val Glu Arg Thr Gly Gln Arg Pro Leu Trp Ala Pro
      115      120      125
Ser Leu Glu Leu Pro Lys Pro Asp Met Gln Pro Leu Pro Ala Gly Ala
      130      135      140
Phe Leu Glu Glu Val Ala Glu Gly Thr Pro Ala Gln Thr Glu Ser Glu
145      150      155      160
Pro Lys Val Leu Asp Pro Glu Glu Asp Leu Leu Cys Ile Ala Lys Thr
      165      170      175
Phe Ser Tyr Leu Arg Glu Ser Gly Trp Tyr Trp Gly Ser Ile Thr Ala
      180      185      190
Ser Glu Ala Arg Gln His Leu Gln Lys Met Pro Glu Gly Thr Phe Leu
      195      200      205
Val Arg Asp Ser Thr His Pro Ser Tyr Leu Phe Thr Leu Ser Val Lys
210      215      220
Thr Thr Arg Gly Pro Thr Asn Val Arg Ile Glu Tyr Ala Asp Ser Ser
225      230      235      240
Phe Arg Leu Asp Ser Asn Cys Leu Ser Arg Pro Arg Ile Leu Ala Phe
      245      250      255
Pro Asp Val Val Ser Leu Val Gln His Tyr Val Ala Ser Cys Thr Ala
      260      265      270
Asp Thr Arg Ser Asp Ser Pro Asp Pro Ala Pro Thr Pro Ala Leu Pro
      275      280      285
Met Pro Lys Glu Asp Ala Pro Ser Asp Pro Ala Leu Pro Ala Pro Pro
290      295      300
Pro Ala Thr Ala Val His Leu Lys Leu Val Gln Pro Phe Val Arg Arg
305      310      315      320
Ser Ser Ala Arg Ser Leu Gln His Leu Cys Arg Leu Val Ile Asn Arg
      325      330      335
Leu Val Ala Asp Val Asp Cys Leu Pro Leu Pro Arg Arg Met Ala Asp
      340      345      350
Tyr Leu Arg Gln Tyr Pro Phe Gln Leu
      355      360      361

```

<210> 1248  
 <211> 279  
 <212> Amino acid  
 <213> Homo sapiens

```

      <400> 1248
Phe Val Asp Ile Phe Gln Arg Trp Lys Glu Cys Arg Gly Lys Ser Pro
 1      5      10      15
Ala Gln Ala Glu Leu Ser Tyr Leu Asn Lys Ala Lys Trp Leu Glu Met
      20      25      30
Tyr Gly Val Asp Met His Val Val Arg Gly Arg Asp Gly Cys Glu Tyr
      35      40      45
Ser Leu Gly Leu Thr Pro Thr Gly Ile Leu Ile Phe Glu Gly Ala Asn
      50      55      60
Lys Ile Gly Leu Phe Phe Trp Pro Lys Ile Thr Lys Met Asp Phe Lys
      65      70      75      80
Lys Ser Lys Leu Thr Leu Val Val Val Glu Asp Asp Asp Gln Gly Arg
      85      90      95
Glu Gln Glu His Thr Phe Val Phe Arg Leu Asp Ser Ala Arg Thr Cys
      100      105      110
Lys His Leu Trp Lys Cys Ala Val Glu His His Ala Phe Phe Arg Leu
      115      120      125
Arg Thr Pro Gly Asn Ser Lys Ser Asn Arg Ser Asp Phe Ile Arg Leu
      130      135      140
Gly Ser Arg Phe Arg Phe Ser Gly Arg Thr Glu Tyr Gln Ala Thr His

```

```

145          150          155          160
Gly Ser Arg Leu Arg Arg Thr Ser Thr Phe Glu Arg Lys Pro Ser Lys
          165          170          175
Arg Tyr Pro Ser Arg Arg His Ser Thr Phe Lys Ala Ser Asn Pro Val
          180          185          190
Ile Ala Ala Gln Leu Cys Ser Lys Thr Asn Pro Glu Val His Asn Tyr
          195          200          205
Gln Pro Gln Tyr His Pro Asn Ile His Pro Ser Gln Pro Arg Trp His
          210          215          220
Pro His Ser Pro Asn Val Arg Pro Ser Phe Gln Asp Asp Arg Ser His
225          230          235          240
Trp Lys Ala Ser Ala Ser Gly Asp Asp Ser His Phe Asp Tyr Val His
          245          250          255
Asp Gln Asn Gln Lys Asn Leu Gly Gly Met Gln Ser Met Met Tyr Arg
          260          265          270
Asp Lys Leu Met Thr Ala Leu
          275          279

```

```

<210> 1249
<211> 255
<212> Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(255)
<223> X = any amino acid or stop code

```

```

          <400> 1249
Gly Gly Ile Arg Leu Ile Gln Lys Leu Thr Trp Arg Ser Arg Gln Gln
  1          5          10          15
Asp Arg Glu Asn Cys Ala Met Lys Gly Lys His Lys Asp Glu Cys His
          20          25          30
Asn Phe Ile Lys Val Phe Val Pro Arg Asn Asp Glu Met Val Phe Val
          35          40          45
Cys Gly Thr Asn Ala Phe Asn Pro Met Cys Arg Tyr Tyr Arg Val Ser
          50          55          60
Ile Phe Tyr Val Ile Cys Phe Phe Xaa Ser Thr Phe Leu Pro Ser Leu
          65          70          75          80
Ile Cys Cys Xaa Ser Xaa Asn Leu Ser Ala Phe Gln Xaa Phe Val Leu
          85          90          95
Ser Leu Val Gln Xaa Lys Asn Lys Asp Arg Ile Leu Gln Met Glu Phe
          100          105          110
Xaa Tyr Lys Xaa Asn Ser Ile Ala Phe Lys Arg Ala Arg Xaa Ile Asp
          115          120          125
Met Thr Leu Ala Ile Tyr Phe Ser Phe Val Leu Ser Thr Leu Xaa Tyr
          130          135          140
Asp Gly Glu Glu Ile Ser Gly Leu Ala Arg Cys Pro Phe Asp Ala Arg
145          150          155          160
Gln Thr Asn Gly Ala Leu Phe Ala Asp Gly Lys Leu Tyr Ser Ala Thr
          165          170          175
Val Ala Asp Phe Leu Ala Ser Asp Ala Val Ile Tyr Arg Ser Met Gly
          180          185          190
Asp Gly Ser Ala Leu Arg Thr Ile Lys Tyr Asp Ser Lys Trp Ile Lys
          195          200          205
Glu Pro His Phe Leu Tyr Ala Ile Lys Tyr Gly Asn Tyr Val Tyr Phe
          210          215          220
Ser Phe Arg Glu Ile Val Ala Thr Xaa Xaa Leu Gly Lys Ala Val Asp
225          230          235          240

```

```
<210> 1250
<211> 307
<212> Amino acid
<213> Homo sapiens
```

```
<210> 1251
<211> 100
<212> Amino acid
<213> Homo sapiens
```

&lt;400&gt; 1251

```

Tyr Phe Ile Ile Cys Arg Asp Gly Val Leu Leu Phe Cys Pro Gly Trp
 1           5           10           15
Ser Gln Thr Pro Gly Ala Gln Ala Ile Leu Leu His Trp Ala Thr Gln
          20           25           30
Asn Ala Gly Met Thr Asp Met Ser His Ser Ala Gln Pro Ile Tyr Leu
          35           40           45
Phe Ile Tyr Leu Ile Arg Thr Arg Ser His Tyr Val Ala Gln Ala Gly
          50           55           60
Gln Leu Leu Asp Ser Asn Asp Ser Pro Asn Val Ala Ser Gln Asn Val
          65           70           75           80
Gly Ile Thr Gly Met Ser His His Ala Trp Leu Lys Ile Val Leu Tyr
          85           90           95
Phe Cys Ile Ile
          100

```

&lt;210&gt; 1252

&lt;211&gt; 464

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1252

```

Pro Ala Ala Arg Pro Pro Ser Leu Val Arg Leu Ser Pro Ser Pro Pro
 1           5           10           15
Lys Pro Arg Ala Arg Ala Arg Ala Pro Gln Ser Val Glu Pro Ala Ala
          20           25           30
Pro Leu Val Ala Arg Gly Ser Ser Pro Pro Ala Arg Pro Ala Pro Ala
          35           40           45
Met Val Arg Pro Arg Arg Ala Pro Tyr Arg Ser Gly Ala Gly Gly Pro
          50           55           60
Leu Gly Gly Arg Gly Arg Pro Pro Arg Pro Leu Val Val Arg Ala Val
          65           70           75           80
Arg Ser Arg Ser Trp Pro Ala Ser Pro Arg Gly Pro Gln Pro Pro Arg
          85           90           95
Ile Arg Ala Arg Ser Ala Pro Pro Met Glu Gly Ala Arg Val Phe Gly
          100          105          110
Ala Leu Gly Pro Ile Gly Pro Ser Pro Gly Leu Thr Leu Gly Gly
          115          120          125
Leu Ala Val Ser Glu His Arg Leu Ser Asn Lys Leu Leu Ala Trp Ser
          130          135          140
Gly Val Leu Glu Trp Gln Glu Lys Arg Arg Pro Tyr Ser Asp Ser Thr
          145          150          155          160
Ala Lys Leu Lys Arg Thr Leu Pro Cys Gln Ala Tyr Val Asn Gln Gly
          165          170          175
Glu Asn Leu Glu Thr Asp Gln Trp Pro Gln Lys Leu Ile Met Gln Leu
          180          185          190
Ile Pro Gln Gln Leu Leu Thr Thr Leu Gly Pro Leu Phe Arg Asn Ser
          195          200          205
Gln Leu Ala Gln Phe His Phe Thr Asn Arg Asp Cys Asp Ser Leu Lys
          210          215          220
Gly Leu Cys Arg Ile Met Gly Asn Gly Phe Ala Gly Cys Met Leu Phe
          225          230          235          240
Pro His Ile Ser Pro Cys Glu Val Arg Val Leu Met Leu Leu Tyr Ser
          245          250          255
Ser Lys Lys Lys Ile Phe Met Gly Leu Ile Pro Tyr Asp Gln Ser Gly
          260          265          270
Phe Val Ser Ala Ile Arg Gln Val Ile Thr Thr Arg Lys Gln Ala Val
          275          280          285

```

Gly Pro Gly Gly Val Asn Ser Gly Pro Val Gln Ile Val Asn Asn Lys  
 290 295 300  
 Phe Leu Ala Trp Ser Gly Val Met Glu Trp Gln Glu Pro Arg Pro Glu  
 305 310 315 320  
 Pro Asn Ser Arg Ser Lys Arg Trp Leu Pro Ser His Val Tyr Val Asn  
 325 330 335  
 Gln Gly Glu Ile Leu Arg Thr Glu Gln Trp Pro Arg Lys Leu Tyr Met  
 340 345 350  
 Gln Leu Ile Pro Gln Gln Leu Leu Thr Thr Leu Val Pro Leu Phe Arg  
 355 360 365  
 Asn Ser Arg Leu Val Gln Phe His Phe Thr Lys Asp Leu Glu Thr Leu  
 370 375 380  
 Lys Ser Leu Cys Arg Ile Met Asp Asn Gly Phe Ala Gly Cys Val His  
 385 390 395 400  
 Phe Ser Tyr Lys Ala Ser Cys Glu Ile Arg Val Leu Met Leu Leu Tyr  
 405 410 415  
 Ser Ser Glu Lys Lys Ile Phe Ile Gly Leu Ile Pro His Asp Gln Gly  
 420 425 430  
 Asn Phe Val Asn Gly Ile Arg Arg Val Ile Ala Asn Gln Gln Gln Val  
 435 440 445  
 Leu Gln Arg Asn Leu Glu Gln Glu Gln Gln Arg Gly Met Gly Gly  
 450 455 460 464

&lt;210&gt; 1253

&lt;211&gt; 214

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1253

Gly Arg Pro Ala Leu Gly Arg Glu Ala Pro Pro Gln Ala Gly Leu Ser  
 1 5 10 15  
 Ser Thr Pro Pro Pro Cys Ser Glu Thr Cys Thr Met Gly Pro His Ser  
 20 25 30  
 Ile Leu Arg Thr Val His Cys Arg Pro Thr Lys Thr Pro Pro Glu Pro  
 35 40 45  
 Ser Ala Glu Pro His Pro Leu Ser Leu Leu Thr Ser Ser Asn Thr Ser  
 50 55 60  
 Leu Ala Gly Thr Ser Leu Gly Arg Asp Leu Thr Pro Gly Gly Gly Lys  
 65 70 75 80  
 Pro Pro Ser Gly Gln Thr Pro Arg Asn Pro Glu Ser Pro Arg His Arg  
 85 90 95  
 Leu Gly Ser Pro Arg Gly Arg Arg Trp Leu Ala Ser Pro Thr Pro Thr  
 100 105 110  
 Gly Ser Gly Arg Ser Gly Pro Ala Ser Arg Gly Gln Arg Arg Leu Ser  
 115 120 125  
 Cys Ala Ala Gln Asp Pro Thr Ser Glu Gly Ala Ser Val Gly Ala Met  
 130 135 140  
 Glu Ala Gly Leu Gly Pro Pro Thr Ala Ala Pro Arg Gly Val Val Ser  
 145 150 155 160  
 Glu Ala Ala Glu Ser Leu Gly Gly Thr Leu Ser Trp Gly Ala Trp Gly  
 165 170 175  
 Arg Pro Pro Ala Gly Pro Ser Gly Leu Ala Gly Arg Arg Ser Arg Arg  
 180 185 190  
 Glu Ala Leu Arg Pro Asp Arg Lys Glu Ala Ser Val Met Met Ala Ala  
 195 200 205  
 Val Ser Ala Ile Gln Pro  
 210 214



<210> 1254  
 <211> 198  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(198)  
 <223> X = any amino acid or stop code

<400> 1254  
 Pro Gly Val Pro Thr His Gly Trp Pro Arg Ser Arg Val Leu Thr Arg  
 1 5 10 15  
 Val Arg Gly Ser Arg Gly Ser Gly Lys Met Ala Ala Ala Val Val Leu  
 20 25 30  
 Ala Ala Gly Leu Arg Ala Ala Arg Arg Ala Val Ala Ala Thr Gly Val  
 35 40 45  
 Arg Gly Gly Gln Val Arg Gly Ala Ala Gly Val Thr Asp Gly Asn Glu  
 50 55 60  
 Val Ala Lys Ala Gln Gln Ala Thr Pro Gly Gly Ala Ala Pro Thr Ile  
 65 70 75 80  
 Phe Ser Arg Ile Leu Asp Lys Ser Leu Pro Ala Asp Ile Leu Tyr Glu  
 85 90 95  
 Asp Gln Gln Cys Leu Val Phe Arg Asp Val Ala Pro Gln Ala Pro Val  
 100 105 110  
 His Phe Leu Val Ile Pro Lys Lys Pro Ile Pro Arg Ile Ser Gln Ala  
 115 120 125  
 Glu Glu Glu Asp Gln Gln Leu Thr Tyr Val Pro Pro Leu Ser Leu Xaa  
 130 135 140  
 Leu Leu Gly His Leu Leu Leu Val Ala Lys Gln Thr Ala Lys Ala Glu  
 145 150 155 160  
 Gly Leu Gly Asp Gly Tyr Arg Leu Val Ile Asn Asp Gly Lys Leu Gly  
 165 170 175  
 Ala Gln Ser Val Tyr His Leu His Ile His Val Leu Gly Gly Arg Gln  
 180 185 190  
 Leu Gln Trp Pro Pro Gly  
 195 198

<210> 1255  
 <211> 458  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(458)  
 <223> X = any amino acid or stop code

<400> 1255  
 Val Pro Asn Tyr Leu Pro Ser Val Ser Ser Ala Ile Gly Gly Glu Val  
 1 5 10 15  
 Pro Gln Arg Tyr Val Trp Arg Phe Cys Ile Gly Leu His Ser Ala Pro  
 20 25 30

Arg Phe Leu Val Ala Phe Ala Tyr Trp Asn His Tyr Leu Ser Cys Thr  
           35                          40                          45  
 Ser Pro Cys Ser Cys Tyr Arg Pro Leu Cys Arg Leu Asn Phe Gly Leu  
           50                          55                          60  
 Asn Val Val Glu Asn Leu Ala Leu Leu Val Leu Thr Tyr Val Ser Ser  
           65                          70                          75                          80  
 Ser Glu Asp Phe Thr Trp Val Pro Gly Xaa Gly Arg Ser Gly Glu Val  
                           85                          90                          95  
 Phe Pro Glu Gly Thr Gly Leu Pro Leu Pro His Ser Asp Leu Pro Thr  
                           100                          105                          110  
 Ser Trp Cys Gly His Ser Leu Gln Cys Gly Ser Gln Ser Ser Phe Pro  
           115                          120                          125  
 Pro Ala Ile His Glu Asn Ala Phe Ile Val Phe Ile Ala Ser Ser Leu  
           130                          135                          140  
 Gly His Met Leu Leu Thr Cys Ile Leu Trp Arg Leu Thr Lys Lys His  
           145                          150                          155                          160  
 Thr Val Ser Gln Glu Asp Gly Leu Ser Leu Ala Gly Ala Pro Arg Gln  
                           165                          170                          175  
 Pro Arg Arg Lys Ser Arg Thr Ser Val Leu Arg Ile Arg Val Met Val  
           180                          185                          190  
 Arg Trp Glu Leu Ser Ser Asn Gly Asn Pro Gly Arg Gly Val Leu Gly  
           195                          200                          205  
 Leu Gly Leu Gly Leu Gly Asn Lys Leu Arg Val Val Gly Gln Asn Leu  
           210                          215                          220  
 Gly Leu Xaa His Cys Val Trp Val Val Trp Glu Thr Gly Glu Xaa Lys  
           225                          230                          235                          240  
 Arg Trp Arg Leu Gln Met Gly Ile Glu Xaa Gly Val Ala Ser Arg Arg  
                           245                          250                          255  
 Gln Xaa Val Arg Asn Ser Val Arg Gly Leu Val Cys His Asn Ser Ser  
           260                          265                          270  
 Ala Pro Pro Met Tyr Met Gly Phe Phe Ser Pro Thr Val Phe Gly Gly  
           275                          280                          285  
 Gly Val Gly Gly Xaa Leu His Val Thr Phe Ile Leu His Pro Pro Glu  
           290                          295                          300  
 Val Glu Ala Ala Gly Ile Pro Leu Leu Leu Gly Pro Ser Leu Pro Gln  
           305                          310                          315                          320  
 Arg Gln Gly Arg Glu His Ile Val Val Ile Leu Ala Ala Pro Ala Cys  
                           325                          330                          335  
 Ala Pro Phe His Asp Arg Xaa Trp Glu Pro Arg Glu Ile Arg Pro Ser  
           340                          345                          350  
 Pro Xaa Glu Leu Gly Leu Arg Gly Glu Pro Thr Leu Ser Tyr Pro Ala  
           355                          360                          365  
 Ser Cys Arg Val Ile Arg Gln Pro Ile Pro Xaa Asp Arg Lys Ser Tyr  
           370                          375                          380  
 Ser Trp Lys Gln Arg Leu Phe Ile Ile Asn Phe Ile Ser Phe Phe Ser  
           385                          390                          395                          400  
 Ala Leu Ala Val Tyr Phe Arg His Asn Met Tyr Cys Glu Ala Gly Val  
                           405                          410                          415  
 Tyr Thr Ile Phe Ala Ile Leu Glu Tyr Thr Val Val Leu Thr Asn Met  
           420                          425                          430  
 Ala Phe His Met Thr Ala Trp Trp Asp Phe Gly Asn Lys Glu Leu Leu  
           435                          440                          445  
 Ile Thr Ser Gln Pro Glu Glu Lys Arg Phe  
           450                          455                          458

&lt;210&gt; 1256

&lt;211&gt; 83

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1256

```

Ile Asp Leu Leu Glu Ile Arg Asn Gly Pro Arg Ser His Glu Ser Phe
 1           5           10           15
Gln Glu Met Asp Leu Asn Asp Asp Trp Lys Leu Ser Lys Asp Glu Val
      20           25           30
Lys Ala Tyr Leu Lys Lys Glu Phe Glu Lys His Gly Ala Val Val Asn
      35           40           45
Glu Ser His His Asp Ala Leu Val Glu Asp Ile Phe Asp Lys Glu Asp
      50           55           60
Glu Asp Lys Asp Gly Phe Ile Ser Ala Arg Glu Phe Thr Tyr Lys His
      65           70           75           80
Asp Glu Leu
      83

```

&lt;210&gt; 1257

&lt;211&gt; 203

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1257

```

Pro Arg Val Arg Gly Arg Val Gly Lys Glu Gly Ala Ala Ala Lys Pro
 1           5           10           15
Arg Ser Leu Leu Arg Arg Phe Gln Leu Leu Ser Trp Ser Val Cys Gly
      20           25           30
Gly Asn Lys Asp Pro Trp Val Gln Glu Leu Met Ser Cys Leu Asp Leu
      35           40           45
Lys Glu Cys Gly His Ala Tyr Ser Gly Ile Val Ala His Gln Lys His
      50           55           60
Leu Leu Pro Thr Ser Pro Pro Ile Ser Gln Ala Ser Glu Gly Ala Ser
      65           70           75           80
Ser Asp Ile His Thr Pro Ala Gln Met Leu Leu Ser Thr Leu Gln Ser
      85           90           95
Thr Gln Arg Pro Thr Leu Pro Val Gly Ser Leu Ser Ser Asp Lys Glu
      100           105           110
Leu Thr Arg Pro Asn Glu Thr Thr Ile His Thr Ala Gly His Ser Leu
      115           120           125
Ala Ala Gly Pro Glu Ala Gly Glu Asn Gln Lys Gln Pro Glu Lys Asn
      130           135           140
Ala Gly Pro Thr Ala Arg Thr Ser Ala Thr Val Pro Val Leu Cys Leu
      145           150           155           160
Leu Ala Ile Ile Phe Ile Leu Thr Ala Ala Leu Ser Tyr Val Leu Cys
      165           170           175
Lys Arg Arg Arg Gly Gln Ser Pro Gln Ser Ser Pro Asp Leu Pro Val
      180           185           190
His Tyr Ile Pro Val Ala Pro Asp Ser Asn Thr
      195           200           203

```

&lt;210&gt; 1258

&lt;211&gt; 195

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1258

```

Leu Ile Ile Ser Asn Phe Leu Lys Ala Lys Gln Lys Pro Gly Ser Thr
 1           5           10           15
Pro Asn Leu Gln Lys Lys Ser Gln Ala Arg Leu Ala Pro Asp Ile
          20           25           30
Val Ser Ala Ser Gln Tyr Arg Lys Phe Asp Glu Phe Gln Thr Gly Ile
          35           40           45
Leu Ile Tyr Glu Leu Leu His Gln Pro Asn Pro Phe Glu Val Arg Ala
          50           55           60
Gln Leu Arg Glu Arg Asp Tyr Arg Gln Glu Asp Leu Pro Pro Leu Pro
          65           70           75           80
Ala Leu Ser Leu Tyr Ser Pro Gly Leu Gln Gln Leu Ala His Leu Leu
          85           90           95
Leu Glu Ala Asp Pro Ile Lys Arg Ile Arg Ile Gly Glu Ala Lys Arg
          100          105          110
Val Leu Gln Cys Leu Leu Trp Gly Pro Arg Arg Glu Leu Val Gln Gln
          115          120          125
Pro Gly Thr Ser Glu Glu Ala Leu Cys Gly Thr Leu His Asn Trp Ile
          130          135          140
Asp Met Lys Arg Ala Leu Met Met Met Lys Phe Ala Glu Lys Ala Val
          145          150          155          160
Asp Arg Arg Arg Gly Val Glu Leu Glu Asp Trp Leu Cys Cys Gln Tyr
          165          170          175
Leu Ala Ser Ala Glu Pro Gly Ala Leu Leu Gln Ser Leu Lys Leu Leu
          180          185          190
Gln Leu Leu
          195

```

&lt;210&gt; 1259

&lt;211&gt; 672

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(672)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1259

```

Lys Arg Gly Leu Ile Val Val Met Ala His Glu Met Ile Gly Thr Gln
 1           5           10           15
Ile Val Thr Glu Arg Gly Val Ala Leu Leu Glu Ser Gly Thr Glu Lys
          20           25           30
Val Leu Leu Ile Asp Ser Arg Pro Phe Val Glu Tyr Asn Thr Ser His
          35           40           45
Ile Leu Glu Ala Ile Asn Ile Asn Cys Ser Lys Leu Met Lys Arg Arg
          50           55           60
Leu Gln Gln Asp Lys Val Leu Ile Thr Glu Leu Ile Gln His Ser Ala
          65           70           75           80
Lys His Lys Val Asp Ile Asp Cys Ser Gln Lys Val Val Val Tyr Asp
          85           90           95
Gln Ser Ser Gln Asp Val Ala Ser Leu Ser Ser Asp Cys Phe Leu Thr
          100          105          110
Val Leu Leu Gly Lys Leu Glu Lys Ser Phe Asn Ser Val His Leu Leu
          115          120          125
Ala Gly Gly Phe Ala Glu Phe Ser Arg Cys Phe Pro Gly Leu Cys Glu
          130          135          140
Gly Lys Ser Thr Leu Val Pro Thr Cys Ile Ser Gln Pro Cys Leu Pro
          145          150          155          160
Val Ala Asn Ile Gly Pro Thr Arg Ile Leu Pro Asn Leu Tyr Leu Gly

```

					165					170					175	
Cys	Gln	Arg	Asp	Val	Leu	Asn	Lys	Glu	Leu	Met	Gln	Gln	Asn	Gly	Ile	
			180					185					190			
Gly	Tyr	Val	Leu	Asn	Ala	Ser	Asn	Thr	Cys	Pro	Lys	Pro	Asp	Phe	Ile	
		195					200					205				
Pro	Glu	Ser	His	Phe	Leu	Arg	Val	Pro	Val	Asn	Asp	Ser	Phe	Cys	Glu	
	210					215					220					
Lys	Ile	Leu	Pro	Trp	Leu	Asp	Lys	Ser	Val	Asp	Phe	Ile	Glu	Lys	Ala	
225					230					235					240	
Lys	Ala	Ser	Asn	Gly	Cys	Val	Leu	Val	His	Cys	Leu	Ala	Gly	Ile	Ser	
				245					250					255		
Arg	Ser	Ala	Thr	Ile	Ala	Ile	Ala	Tyr	Ile	Met	Lys	Arg	Met	Asp	Met	
			260					265					270			
Ser	Leu	Asp	Glu	Ala	Tyr	Arg	Phe	Val	Lys	Glu	Lys	Arg	Pro	Thr	Ile	
		275					280					285				
Ser	Pro	Asn	Phe	Asn	Phe	Leu	Gly	Gln	Leu	Leu	Asp	Tyr	Glu	Lys	Lys	
	290					295					300					
Ile	Lys	Asn	Gln	Thr	Gly	Ala	Ser	Gly	Pro	Lys	Ser	Lys	Leu	Lys	Leu	
305					310					315					320	
Leu	His	Leu	Glu	Lys	Pro	Asn	Glu	Pro	Val	Pro	Ala	Val	Ser	Glu	Gly	
				325					330					335		
Gly	Gln	Lys	Ser	Glu	Thr	Pro	Leu	Ser	Pro	Pro	Cys	Ala	Asp	Ser	Ala	
			340					345					350			
Thr	Ser	Glu	Ala	Ala	Gly	Gln	Arg	Pro	Val	His	Pro	Ala	Ser	Val	Pro	
		355					360					365				
Ser	Val	Pro	Ser	Val	Gln	Pro	Ser	Leu	Leu	Glu	Asp	Ser	Pro	Leu	Val	
	370					375					380					
Gln	Ala	Leu	Ser	Gly	Leu	His	Leu	Ser	Ala	Asp	Arg	Leu	Glu	Asp	Ser	
385					390					395					400	
Asn	Lys	Leu	Lys	Arg	Ser	Phe	Ser	Leu	Asp	Ile	Lys	Ser	Val	Ser	Tyr	
				405					410					415		
Ser	Ala	Ser	Met	Ala	Ala	Ser	Leu	His	Gly	Phe	Ser	Ser	Ser	Glu	Asp	
			420					425					430			
Ala	Leu	Glu	Tyr	Tyr	Lys	Pro	Ser	Thr	Thr	Leu	Asp	Gly	Thr	Asn	Lys	
		435					440					445				
Leu	Cys	Gln	Phe	Ser	Pro	Val	Gln	Glu	Leu	Cys	Gly	Ala	Asp	Ser	Arg	
	450					455					460					
Asn	Gln	Ser	Xaa	Xaa	Gly	Gly	Ser	Gln	Pro	Ser	Pro	Arg	Ser	Cys	Arg	
465					470					475					480	
Pro	Pro	Gly	Leu	Gln	Thr	Ala	Arg	Ala	Ser	Asp	Cys	Ile	Arg	Ser	Glu	
				485					490					495		
Pro	Ala	Ala	Val	Ala	Pro	Pro	Arg	Gly	Pro	Phe	Tyr	Leu	His	Cys	Ile	
			500													

<210> 1260  
 <211> 260  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1260  
 Ala Ser Ser Ser Lys Arg Val Ser Arg Gln Lys Met Leu Gln Leu Trp  
 1 5 10 15  
 Lys Leu Val Leu Leu Cys Gly Val Leu Thr Gly Thr Ser Glu Ser Leu  
 20 25 30  
 Leu Asp Asn Leu Gly Asn Asp Leu Ser Asn Val Val Asp Lys Leu Glu  
 35 40 45  
 Pro Val Leu His Glu Gly Leu Glu Thr Val Asp Asn Thr Leu Lys Gly  
 50 55 60  
 Ile Leu Glu Lys Leu Lys Val Asp Leu Gly Val Leu Gln Lys Ser Ser  
 65 70 75 80  
 Ala Trp Gln Leu Ala Lys Gln Lys Ala Gln Glu Ala Glu Lys Leu Leu  
 85 90 95  
 Asn Asn Val Ile Ser Lys Leu Leu Pro Thr Asn Thr Asp Ile Phe Gly  
 100 105 110  
 Leu Lys Ile Ser Asn Ser Leu Ile Leu Asp Val Lys Ala Glu Pro Ile  
 115 120 125  
 Asp Asp Gly Lys Gly Leu Asn Leu Ser Phe Pro Val Thr Ala Asn Val  
 130 135 140  
 Thr Glu Ala Gly Pro Ile Ile Asp Gln Ile Ile Asn Leu Arg Ala Ser  
 145 150 155 160  
 Leu Asp Leu Leu Thr Ala Val Thr Ile Glu Thr Asp Pro Gln Thr His  
 165 170 175  
 His Pro Val Ala Gly Leu Gly Glu Cys Ala Arg Asp Pro Thr Ser Ile  
 180 185 190  
 Ser Leu Cys Leu Leu Asp Lys His Ser Gln Ile Ile Asn Lys Phe Val  
 195 200 205  
 Asn Ser Val Ile Asn Thr Leu Lys Ser Thr Val Ser Ser Leu Leu Gln  
 210 215 220  
 Lys Glu Ile Cys Pro Leu Ile Arg Ile Phe Ile His Ser Leu Asp Val  
 225 230 235 240  
 Asn Val Ile Gln Gln Val Val Asp Asn Pro Gln His Lys Thr Gln Leu  
 245 250 255  
 Gln Thr Leu Ile  
 260

<210> 1261  
 <211> 278  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1261  
 Cys Ser Leu Arg Arg Pro Arg Ser Ala Ala Glu Pro Asp Ala Asp His  
 1 5 10 15  
 Val Pro Leu Leu Gly Leu Leu Arg Leu Gln Leu Arg Ala Ala Arg Gln  
 20 25 30  
 Pro Gly Ala Met Arg Pro Gln Gly Pro Ala Ala Ser Pro Gln Arg Leu

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      35      40      45
Arg Gly Leu Leu Leu Leu Leu Leu Leu Gln Leu Pro Ala Pro Ser Ser
   50      55      60
Ala Ser Glu Ile Pro Lys Gly Lys Gln Lys Ala Gln Leu Arg Gln Arg
   65      70      75      80
Glu Val Val Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly
      85      90      95
Val Pro Gly Arg Asp Gly Ser Pro Gly Ala Asn Gly Ile Pro Gly Thr
      100      105      110
Pro Gly Ile Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys
      115      120      125
Leu Arg Glu Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln Cys
      130      135      140
Ser Trp Ser Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala Glu
      145      150      155      160
Cys Thr Phe Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe
      165      170      175
Ser Gly Ser Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp
      180      185      190
Tyr Phe Thr Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu
      195      200      205
Ala Ile Ile Tyr Leu Asp Gln Gly Ser Pro Glu Met Asn Ser Thr Ile
      210      215      220
Asn Ile His Arg Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly
      225      230      235      240
Ala Gly Leu Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr
      245      250      255
Pro Lys Gly Asp Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Ile Ile
      260      265      270
Ile Glu Glu Leu Pro Lys
      275      278

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&lt;210&gt; 1262

&lt;211&gt; 362

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1262

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Met His Ser Ala Met Leu Gly Thr Arg Val Asn Leu Ser Val Ser Asp
  1      5      10      15
Phe Trp Arg Val Met Met Arg Val Cys Trp Leu Val Arg Gln Asp Ser
      20      25      30
Arg His Gln Arg Ile Arg Leu Pro His Leu Glu Ala Val Val Ile Gly
      35      40      45
Arg Gly Pro Glu Thr Lys Ile Thr Asp Lys Lys Cys Ser Arg Gln Gln
      50      55      60
Val Gln Leu Lys Ala Glu Cys Asn Lys Gly Tyr Val Lys Val Lys Gln
      65      70      75      80
Val Gly Val Asn Pro Thr Ser Ile Asp Ser Val Val Ile Gly Lys Asp
      85      90      95
Gln Glu Val Lys Leu Gln Pro Gly Gln Val Leu His Met Val Asn Glu
      100      105      110
Leu Tyr Pro Tyr Ile Val Glu Phe Glu Glu Glu Ala Lys Asn Pro Gly
      115      120      125
Leu Glu Thr His Arg Lys Arg Lys Arg Ser Gly Asn Ser Asp Ser Ile
      130      135      140
Glu Arg Asp Ala Ala Gln Glu Ala Glu Ala Gly Thr Gly Leu Glu Pro
      145      150      155      160
Gly Ser Asn Ser Gly Gln Cys Ser Val Pro Leu Lys Lys Gly Lys Asp

```

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                165                170                175
Ala Pro Ile Lys Lys Glu Ser Leu Gly His Trp Ser Gln Gly Leu Lys
                180                185                190
Ile Ser Met Gln Asp Pro Lys Met Gln Val Tyr Lys Asp Glu Gln Val
                195                200                205
Val Val Ile Lys Asp Lys Tyr Pro Lys Ala Arg Tyr His Trp Leu Val
                210                215                220
Leu Pro Trp Thr Ser Ile Ser Ser Leu Lys Ala Val Ala Arg Glu His
225                230                235                240
Leu Glu Leu Leu Lys His Met His Thr Val Gly Glu Lys Val Ile Val
                245                250                255
Asp Phe Ala Gly Ser Ser Lys Leu Arg Phe Arg Leu Gly Tyr His Ala
                260                265                270
Ile Pro Ser Met Ser His Val His Leu His Val Ile Ser Gln Asp Phe
                275                280                285
Asp Ser Pro Cys Leu Lys Asn Lys Lys His Trp Asn Ser Phe Asn Thr
290                295                300
Glu Tyr Phe Leu Glu Ser Gln Ala Val Ile Glu Met Val Gln Glu Ala
305                310                315                320
Gly Arg Val Thr Val Arg Asp Gly Met Pro Glu Leu Leu Lys Leu Pro
                325                330                335
Leu Arg Cys His Glu Cys Gln Gln Leu Leu Pro Ser Ile Pro Gln Leu
                340                345                350
Lys Glu His Leu Arg Lys His Trp Thr Gln
                355                360                362

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&lt;210&gt; 1263

&lt;211&gt; 618

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(618)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1263

```

Asp Met Ser Asp Thr Ser Glu Ser Gly Ala Gly Leu Thr Arg Phe Gln
1                5                10                15
Ala Glu Ala Ser Glu Lys Asp Ser Ser Ser Met Met Gln Thr Leu Leu
                20                25                30
Thr Val Thr Gln Asn Val Glu Val Pro Glu Thr Pro Lys Ala Ser Lys
                35                40                45
Ala Leu Glu Val Ser Glu Asp Val Lys Val Ser Lys Ala Ser Gly Val
50                55                60
Ser Lys Ala Thr Glu Val Ser Lys Thr Pro Glu Ala Arg Glu Ala Pro
65                70                75                80
Ala Thr Gln Ala Ser Ser Thr Thr Gln Leu Thr Asp Thr Gln Val Leu
                85                90                95
Ala Ala Glu Asn Lys Ser Leu Ala Ala Asp Thr Lys Lys Gln Asn Ala
100                105                110
Asp Pro Gln Ala Val Thr Met Pro Ala Thr Glu Thr Lys Lys Val Ser
115                120                125
His Val Ala Asp Thr Lys Val Asn Thr Lys Ala Gln Glu Thr Glu Ala
130                135                140
Ala Pro Ser Gln Ala Pro Ala Asp Glu Pro Glu Pro Glu Ser Ala Ala
145                150                155                160
Ala Gln Ser Gln Glu Asn Gln Asp Thr Arg Pro Lys Val Lys Ala Lys
                165                170                175

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Lys Ala Arg Lys Val Lys His Leu Asp Gly Glu Glu Asp Gly Ser Ser  
 180 185 190  
 Asp Gln Ser Gln Ala Ser Gly Thr Thr Gly Gly Arg Arg Val Ser Lys  
 195 200 205  
 Ala Leu Met Ala Ser Met Ala Arg Arg Ala Ser Arg Gly Pro Ile Ala  
 210 215 220  
 Phe Trp Ala Arg Arg Ala Ser Arg Thr Arg Leu Ala Cys Phe Gly Pro  
 225 230 235 240  
 Gly Glu Pro Leu Leu Ser Pro Trp Arg Ser Pro Lys Ala Arg Arg Gln  
 245 250 255  
 Arg Gly Phe Ala Val Arg Val Ala Lys Phe Gln Ser Ser Gln Glu Pro  
 260 265 270  
 Glu Ala Pro Pro Pro Trp Asp Val Ala Leu Leu Gln Gly Arg Ala Asn  
 275 280 285  
 Asp Leu Val Lys Tyr Leu Leu Ala Lys Asp Gln Thr Lys Ile Pro Ile  
 290 295 300  
 Lys Arg Ser Asp Met Leu Lys Asp Ile Ile Lys Glu Tyr Thr Asp Val  
 305 310 315 320  
 Tyr Pro Glu Ile Ile Glu Arg Ala Gly Tyr Ser Leu Glu Lys Val Phe  
 325 330 335  
 Gly Ile Gln Leu Lys Glu Ile Asp Lys Asn Asp His Leu Tyr Ile Leu  
 340 345 350  
 Leu Ser Thr Leu Glu Pro Thr Asp Ala Gly Ile Leu Gly Thr Thr Lys  
 355 360 365  
 Asp Ser Pro Lys Leu Gly Leu Leu Met Val Leu Leu Ser Ile Ile Phe  
 370 375 380  
 Met Asn Gly Asn Arg Ser Ser Glu Ala Val Ile Trp Glu Val Leu Arg  
 385 390 395 400  
 Arg Ser Leu Gly Leu Arg Leu Gly Ile His His Ser Leu Leu Gly Asp  
 405 410 415  
 Val Lys Lys Leu Ile Thr Asp Glu Val Val Lys Gln Lys Tyr Leu Asp  
 420 425 430  
 Tyr Ala Arg Val Pro His Ser Asn Ser Pro Glu Tyr Glu Phe Phe Trp  
 435 440 445  
 Gly Leu Arg Ser Tyr Tyr Glu Asp Gln Gln Arg Xaa Lys Ser Phe Lys  
 450 455 460  
 Phe Ala Cys Lys Val Gln Lys Lys Asp Pro Lys Glu Trp Ala Ala Gln  
 465 470 475 480  
 Ser Pro Pro Gly Lys Ala Arg Glu Arg Met Glu Ala Asp Leu Lys Ala  
 485 490 495  
 Ala Ser Xaa Gly Ser Pro Trp Lys Pro Arg Leu Arg Ala Glu Ile Lys  
 500 505 510  
 Ala Arg Met Gly Ile Gly Leu Gly Ser Glu Asn Ala Ala Gly Pro Cys  
 515 520 525  
 Asn Trp Asp Glu Ala Asp Ile Gly Pro Trp Ala Lys Ala Arg Ile Gln  
 530 535 540  
 Ala Gly Ala Glu Ala Lys Ala Lys Ala Gln Glu Ser Gly Ser Ala Ser  
 545 550 555 560  
 Thr Gly Ala Ser Thr Ser Thr Asn Asn Ser Ala Ser Ala Ser Ala Ser  
 565 570 575  
 Thr Ser Gly Gly Phe Ser Ala Gly Ala Ser Leu Thr Ala Thr Leu Thr  
 580 585 590  
 Phe Gly Leu Phe Ala Gly Leu Gly Gly Ala Gly Ala Ser Thr Ser Gly  
 595 600 605  
 Ser Ser Gly Ala Cys Gly Phe Ser Tyr Lys  
 610 615 618

&lt;210&gt; 1264

&lt;211&gt; 464

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> misc\_feature  
 <222> (1)...(464)  
 <223> X = any amino acid or stop code

<400> 1264

Ala	Arg	Pro	Pro	Val	Cys	Thr	Gly	Ser	Thr	Met	Ser	Leu	Thr	Val	Val	1	5	10	15
Ser	Met	Ala	Cys	Val	Gly	Phe	Phe	Leu	Leu	Gln	Gly	Ala	Trp	Pro	Leu	20	25	30	
Met	Gly	Gly	Gln	Asp	Lys	Pro	Phe	Leu	Ser	Ala	Arg	Pro	Ser	Thr	Val	35	40	45	
Val	Pro	Arg	Gly	Gly	His	Val	Ala	Leu	Gln	Cys	His	Tyr	Arg	Arg	Gly	50	55	60	
Phe	Asn	Asn	Phe	Met	Leu	Tyr	Lys	Glu	Asp	Arg	Ser	His	Val	Pro	Ile	65	70	75	80
Phe	His	Gly	Arg	Ile	Phe	Gln	Glu	Ser	Phe	Ile	Met	Gly	Pro	Val	Thr	85	90	95	
Pro	Ala	His	Ala	Gly	Thr	Tyr	Arg	Cys	Arg	Gly	Ser	Arg	Pro	His	Ser	100	105	110	
Leu	Thr	Gly	Trp	Ser	Ala	Pro	Ser	Asn	Pro	Leu	Val	Ile	Met	Val	Thr	115	120	125	
Gly	Asn	His	Arg	Lys	Pro	Ser	Leu	Leu	Ala	His	Pro	Gly	Pro	Leu	Leu	130	135	140	
Lys	Ser	Gly	Glu	Thr	Val	Ile	Leu	Gln	Cys	Trp	Ser	Asp	Ile	Met	Phe	145	150	155	160
Glu	His	Phe	Phe	Leu	His	Lys	Glu	Gly	Ile	Ser	Lys	Asp	Pro	Ser	Arg	165	170	175	
Leu	Val	Gly	Gln	Ile	His	Asp	Gly	Val	Ser	Lys	Ala	Asn	Phe	Ser	Ile	180	185	190	
Gly	Pro	Met	Met	Leu	Ala	Leu	Ala	Gly	Thr	Tyr	Arg	Cys	Tyr	Gly	Ser	195	200	205	
Val	Thr	His	Thr	Pro	Tyr	Gln	Leu	Ser	Ala	Pro	Ser	Asp	Pro	Leu	Asp	210	215	220	
Ile	Val	Val	Thr	Gly	Pro	Tyr	Glu	Lys	Pro	Ser	Leu	Ser	Ala	Gln	Pro	225	230	235	240
Gly	Pro	Lys	Val	Gln	Ala	Gly	Glu	Ser	Val	Thr	Leu	Ser	Cys	Ser	Ser	245	250	255	
Arg	Ser	Ser	Tyr	Asp	Met	Tyr	His	Leu	Ser	Arg	Glu	Gly	Gly	Ala	His	260	265	270	
Glu	Arg	Arg	Leu	Pro	Ala	Val	Arg	Lys	Val	Asn	Arg	Thr	Phe	Gln	Ala	275	280	285	
Asp	Phe	Pro	Leu	Gly	Pro	Ala	Thr	His	Gly	Gly	Thr	Tyr	Arg	Cys	Phe	290	295	300	
Gly	Ser	Phe	Arg	His	Ser	Pro	Tyr	Glu	Trp	Ser	Asp	Pro	Ser	Asp	Pro	305	310	315	320
Leu	Leu	Val	Ser	Val	Thr	Gly	Asn	Pro	Ser	Ser	Ser	Trp	Pro	Ser	Pro	325	330	335	
Thr	Glu	Pro	Ser	Ser	Lys	Ser	Gly	Asn	Leu	Arg	His	Leu	His	Ile	Leu	340	345	350	
Ile	Gly	Thr	Ser	Val	Val	Lys	Ile	Pro	Phe	Thr	Ile	Leu	Leu	Phe	Phe	355	360	365	
Leu	Leu	His	Arg	Trp	Cys	Ser	Asn	Lys	Lys	Asn	Ala	Ala	Val	Met	Asp	370	375	380	
Gln	Glu	Pro	Ala	Gly	Asn	Arg	Val	Asn	Ser	Glu	Asp	Ser	Asp	Glu	Gln	385	390	395	400
Asp	His	Gln	Glu	Val	Ser	Tyr	Pro	Xaa	Leu	Glu	His	Cys	Val	Phe	Thr	405	410	415	
Gln	Arg	Lys	Ile	Thr	Arg	Pro	Ser	Gln	Arg	Pro	Lys	Thr	Pro	Pro	Thr	420	425	430	
Asp	Thr	Ser	Met	Tyr	Ile	Glu	Leu	Pro	Asn	Ala	Glu	Pro	Arg	Ser	Lys				

435                      440                      445  
 Val Val Phe Cys Pro Arg Ala Pro Gln Ser Gly Leu Glu Gly Ile Phe  
 450                      455                      460                      464

<210> 1265  
 <211> 1879  
 <212> Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(1879)  
 <223> X = any amino acid or stop code

<400> 1265  
 Leu His Asn Leu Arg Glu Arg Tyr Phe Ser Gly Leu Ile Tyr Thr Tyr  
 1                      5                      10                      15  
 Ser Gly Leu Phe Cys Val Val Val Asn Pro Tyr Lys His Leu Pro Ile  
 20                      25                      30  
 Tyr Ser Glu Lys Ile Val Asp Met Tyr Lys Gly Lys Lys Arg His Glu  
 35                      40                      45  
 Met Pro Pro His Ile Tyr Ala Ile Ala Asp Thr Ala Tyr Arg Ser Met  
 50                      55                      60  
 Leu Gln Asp Arg Glu Asp Gln Ser Ile Leu Cys Thr Gly Glu Ser Gly  
 65                      70                      75                      80  
 Ala Gly Lys Thr Glu Asn Thr Lys Lys Val Ile Gln Tyr Leu Ala Val  
 85                      90                      95  
 Val Ala Ser Ser His Lys Gly Lys Lys Asp Thr Ser Ile Thr Gly Glu  
 100                      105                      110  
 Leu Glu Lys Gln Leu Leu Gln Ala Asn Pro Ile Leu Glu Ala Phe Gly  
 115                      120                      125  
 Asn Ala Lys Thr Val Lys Asn Asp Asn Ser Ser Arg Phe Gly Lys Phe  
 130                      135                      140  
 Ile Arg Ile Asn Phe Asp Val Thr Gly Tyr Ile Val Gly Ala Asn Ile  
 145                      150                      155                      160  
 Glu Thr Tyr Leu Leu Glu Lys Ser Arg Ala Ile Arg Gln Ala Arg Asp  
 165                      170                      175  
 Glu Arg Thr Phe His Ile Phe Tyr Tyr Met Ile Ala Gly Ala Lys Glu  
 180                      185                      190  
 Lys Met Arg Ser Asp Leu Leu Leu Glu Gly Phe Asn Asn Tyr Thr Phe  
 195                      200                      205  
 Leu Ser Asn Gly Phe Val Pro Ile Pro Ala Ala Gln Asp Asp Glu Met  
 210                      215                      220  
 Phe Gln Glu Thr Val Glu Ala Met Ala Ile Met Gly Phe Ser Glu Glu  
 225                      230                      235                      240  
 Glu Gln Leu Ser Ile Leu Lys Val Val Ser Ser Val Leu Gln Leu Gly  
 245                      250                      255  
 Asn Ile Val Phe Lys Lys Glu Arg Asn Thr Asp Gln Ala Ser Met Pro  
 260                      265                      270  
 Asp Asn Thr Ala Ala Gln Lys Val Cys His Leu Met Gly Ile Asn Val  
 275                      280                      285  
 Thr Asp Phe Thr Arg Ser Ile Leu Thr Pro Arg Ile Lys Val Gly Arg  
 290                      295                      300  
 Asp Val Val Gln Lys Ala Gln Thr Lys Glu Gln Ala Asp Phe Ala Val  
 305                      310                      315                      320  
 Glu Ala Leu Ala Lys Ala Thr Tyr Glu Arg Leu Phe Arg Trp Ile Leu  
 325                      330                      335

Thr Arg Val Asn Lys Ala Leu Asp Lys Thr His Arg Gln Gly Ala Ser  
 340 345 350  
 Phe Leu Gly Ile Leu Asp Ile Ala Gly Phe Glu Ile Phe Glu Val Asn  
 355 360 365  
 Ser Phe Glu Gln Leu Cys Ile Asn Tyr Thr Asn Glu Lys Leu Gln Gln  
 370 375 380  
 Leu Phe Asn His Thr Met Phe Ile Leu Glu Gln Glu Glu Tyr Gln Arg  
 385 390 395 400  
 Glu Gly Ile Glu Trp Asn Phe Ile Asp Phe Gly Leu Asp Leu Gln Pro  
 405 410 415  
 Cys Ile Glu Leu Ile Glu Arg Pro Asn Asn Pro Pro Gly Val Leu Ala  
 420 425 430  
 Leu Leu Asp Glu Glu Cys Trp Phe Pro Lys Ala Thr Asp Lys Ser Phe  
 435 440 445  
 Val Glu Lys Leu Cys Thr Glu Gln Gly Ser His Pro Lys Phe Gln Lys  
 450 455 460  
 Pro Lys Gln Leu Lys Asp Lys Thr Glu Phe Ser Ile Ile His Tyr Ala  
 465 470 475 480  
 Gly Lys Val Asp Tyr Asn Ala Ser Ala Trp Leu Thr Lys Asn Met Asp  
 485 490 495  
 Pro Leu Asn Asp Asn Val Thr Ser Leu Leu Asn Ala Ser Ser Asp Lys  
 500 505 510  
 Phe Val Ala Asp Leu Trp Lys Asp Val Asp Arg Ile Val Gly Leu Asp  
 515 520 525  
 Gln Met Ala Lys Met Thr Glu Ser Ser Leu Pro Ser Ala Ser Lys Thr  
 530 535 540  
 Lys Lys Gly Met Phe Arg Thr Val Gly Gln Leu Tyr Lys Glu Gln Leu  
 545 550 555 560  
 Gly Lys Leu Met Thr Thr Leu Arg Asn Thr Thr Pro Asn Phe Val Arg  
 565 570 575  
 Cys Ile Ile Pro Asn His Glu Lys Arg Ser Gly Lys Leu Asp Ala Phe  
 580 585 590  
 Leu Val Leu Glu Gln Leu Arg Cys Asn Gly Val Leu Glu Gly Ile Arg  
 595 600 605  
 Ile Cys Arg Gln Gly Phe Pro Asn Arg Ile Val Phe Gln Glu Phe Arg  
 610 615 620  
 Gln Arg Tyr Glu Ile Leu Ala Ala Asn Ala Ile Pro Lys Gly Phe Met  
 625 630 635 640  
 Asp Gly Lys Gln Ala Cys Ile Leu Met Ile Lys Ala Leu Glu Leu Asp  
 645 650 655  
 Pro Asn Leu Tyr Arg Ile Gly Gln Ser Lys Ile Phe Phe Arg Thr Gly  
 660 665 670  
 Val Leu Ala His Leu Glu Glu Glu Arg Asp Leu Lys Ile Thr Asp Val  
 675 680 685  
 Ile Met Ala Phe Gln Ala Met Cys Arg Gly Tyr Leu Ala Arg Lys Ala  
 690 695 700  
 Phe Ala Lys Arg Gln Gln Gln Leu Thr Ala Met Lys Val Ile Gln Arg  
 705 710 715 720  
 Asn Cys Ala Ala Tyr Ile Lys Leu Arg Asn Trp Gln Trp Cys Arg Leu  
 725 730 735  
 Phe Thr Lys Val Xaa Pro Leu Leu Gln Val Thr Arg Gln Glu Xaa Glu  
 740 745 750  
 Met Gln Ala Lys Glu Asp Glu Leu Gln Lys Thr Lys Glu Arg Gln Gln  
 755 760 765  
 Lys Ala Glu Asn Glu Leu Lys Glu Leu Glu Gln Lys His Ser Gln Leu  
 770 775 780  
 Thr Glu Glu Lys Asn Leu Leu Gln Glu Gln Leu Gln Ala Glu Thr Glu  
 785 790 795 800  
 Leu Tyr Ala Glu Ala Glu Glu Met Arg Val Arg Leu Ala Ala Lys Lys  
 805 810 815  
 Gln Glu Leu Glu Glu Ile Leu His Glu Met Glu Ala Arg Leu Glu Glu  
 820 825 830  
 Glu Glu Asp Arg Gly Gln Gln Leu Gln Ala Glu Arg Lys Lys Met Ala  
 835 840 845

Gln Gln Met Leu Asp Leu Glu Glu Gln Leu Glu Glu Glu Glu Ala Ala  
 850 855 860  
 Arg Gln Lys Leu Gln Leu Glu Lys Val Thr Ala Glu Ala Lys Ile Lys  
 865 870 875 880  
 Lys Leu Glu Asp Glu Ile Leu Val Met Asp Asp Gln Asn Asn Lys Leu  
 885 890 895  
 Ser Lys Glu Arg Lys Leu Leu Glu Glu Arg Ile Ser Asp Leu Thr Thr  
 900 905 910  
 Asn Leu Ala Glu Glu Glu Glu Lys Ala Lys Asn Leu Thr Lys Leu Lys  
 915 920 925  
 Asn Lys His Glu Ser Met Ile Ser Glu Leu Glu Val Arg Leu Lys Lys  
 930 935 940  
 Glu Glu Lys Ser Arg Gln Glu Leu Glu Lys Leu Lys Arg Lys Leu Glu  
 945 950 955 960  
 Gly Asp Ala Ser Asp Phe His Glu Gln Ile Ala Asp Leu Gln Ala Gln  
 965 970 975  
 Ile Ala Glu Leu Lys Met Gln Leu Ala Lys Lys Glu Glu Glu Leu Gln  
 980 985 990  
 Ala Ala Leu Ala Arg Leu Asp Asp Glu Ile Ala Gln Lys Asn Asn Ala  
 995 1000 1005  
 Leu Lys Lys Ile Arg Glu Leu Glu Gly His Ile Ser Asp Leu Gln Glu  
 1010 1015 1020  
 Asp Leu Asp Ser Glu Arg Ala Ala Arg Asn Lys Ala Glu Lys Gln Lys  
 1025 1030 1035 1040  
 Arg Asp Leu Gly Glu Glu Leu Glu Ala Leu Lys Thr Glu Leu Glu Asp  
 1045 1050 1055  
 Thr Leu Asp Ser Thr Ala Thr Gln Gln Glu Leu Arg Ala Lys Arg Glu  
 1060 1065 1070  
 Gln Glu Val Thr Val Leu Lys Arg Ala Leu Asn Glu Glu Thr Arg Ser  
 1075 1080 1085  
 His Glu Ala Gln Val Gln Glu Met Arg Gln Lys His Ala Gln Ala Val  
 1090 1095 1100  
 Gln Ser Leu Thr Glu Gln Leu Glu Gln Xaa Lys Arg Ala Lys Ala Asn  
 1105 1110 1115 1120  
 Leu Asp Lys Asn Lys Gln Thr Leu Glu Lys Glu Asn Thr Asp Leu Ala  
 1125 1130 1135  
 Gly Glu Leu Arg Val Leu Gly Gln Ala Lys Gln Glu Val Glu His Arg  
 1140 1145 1150  
 Met Lys Lys Leu Gln Ala Gln Val Gln Glu Leu Gln Ser Lys Cys Ser  
 1155 1160 1165  
 Asp Gly Glu Arg Ala Arg Ala Glu Leu Asn Asp Lys Val His Lys Leu  
 1170 1175 1180  
 Gln Asn Glu Val Glu Ser Val Thr Gly Met Leu Asn Glu Ala Glu Gly  
 1185 1190 1195 1200  
 Lys Ala Ile Lys Leu Ala Lys Asp Val Ala Ser Leu Ser Ser Gln Leu  
 1205 1210 1215  
 Gln Asp Thr Gln Glu Leu Leu Gln Glu Ser Arg Gln Lys Leu Asn  
 1220 1225 1230  
 Val Ser Thr Ser Leu Arg Gln Leu Glu Glu Glu Arg Asn Ser Leu Gln  
 1235 1240 1245  
 Asp Gln Leu Asp Glu Glu Met Glu Ala Lys Gln Asn Leu Glu Arg His  
 1250 1255 1260  
 Ile Ser Thr Leu Asn Ile Gln Leu Ser Asp Ser Lys Lys Lys Leu Gln  
 1265 1270 1275 1280  
 Asp Phe Ala Ser Thr Val Glu Ala Leu Glu Glu Gly Lys Lys Arg Phe  
 1285 1290 1295  
 Gln Lys Glu Ile Glu Asn Leu Thr Gln Gln Tyr Glu Glu Lys Ala Ala  
 1300 1305 1310  
 Ala Tyr Asp Lys Leu Glu Lys Thr Lys Asn Arg Leu Gln Gln Glu Leu  
 1315 1320 1325  
 Asp Asp Leu Val Val Asp Leu Asp Asn Gln Arg Gln Leu Val Ser Asn  
 1330 1335 1340  
 Leu Glu Lys Lys Gln Arg Lys Phe Asp Gln Leu Leu Ala Glu Glu Lys  
 1345 1350 1355 1360

Asn Ile Ser Ser Lys Tyr Ala Asp Glu Arg Asp Arg Val Glu Ala Glu  
 1365 1370 1375  
 Ala Arg Glu Lys Glu Thr Lys Ala Leu Ser Leu Ala Arg Ala Leu Glu  
 1380 1385 1390  
 Glu Ala Leu Glu Ala Lys Glu Glu Leu Glu Arg Thr Asn Lys Met Leu  
 1395 1400 1405  
 Lys Ala Glu Met Gly Arg Pro Gly Ser Ala Ser Lys Asp Asp Val Gly  
 1410 1415 1420  
 Gln Glu Leu Ser His Asp Leu Glu Lys Ser Lys Arg Ala Leu Gly Asp  
 1425 1430 1435 1440  
 Pro Arg Leu Glu Glu Met Lys Thr Gln Leu Glu Glu Leu Gly Arg Thr  
 1445 1450 1455  
 Glu Leu Ala Ser Pro Arg Arg Asp Ala Lys Leu Arg Leu Glu Val Asn  
 1460 1465 1470  
 Met Gln Ala Pro Ser Arg Ala Ser Phe Glu Arg Asp Leu Gln Ala Arg  
 1475 1480 1485  
 Thr Glu Gln Asn Glu Glu Ser Arg Arg His Leu Gln Arg Gln Leu His  
 1490 1495 1500  
 Glu Tyr Glu Thr Glu Leu Glu Asp Glu Arg Lys Gln Arg Ala Leu Ala  
 1505 1510 1515 1520  
 Ala Ala Ala Lys Ile Lys Leu Gly Trp Asp Pro Val Arg Thr Leu Asp  
 1525 1530 1535  
 Leu Xaa Ala Asp Ser Ala Ile Lys Gly Arg Gly Gly Lys Ala Ile Lys  
 1540 1545 1550  
 Gln Leu Arg Lys Leu Gln Ala Gln Met Lys Asp Phe Gln Arg Glu Leu  
 1555 1560 1565  
 Glu Asp Ala Arg Ala Ser Arg Asp Glu Ile Phe Ala Thr Ala Lys Glu  
 1570 1575 1580  
 Asn Glu Lys Lys Ala Lys Ser Leu Glu Ala Asp Leu Met Gln Leu Gln  
 1585 1590 1595 1600  
 Glu Asp Leu Ala Ala Ala Glu Glu Gly Arg Lys Gln Ala Asp Leu Glu  
 1605 1610 1615  
 Lys Glu Glu Leu Ala Glu Glu Leu Ala Ser Ser Leu Ser Gly Arg Asn  
 1620 1625 1630  
 Ala Leu Gln Asp Glu Lys Arg Arg Leu Glu Ala Arg Ile Ala Gln Leu  
 1635 1640 1645  
 Glu Glu Glu Leu Glu Glu Glu Gln Gly Asn Met Glu Ala Met Ser Asp  
 1650 1655 1660  
 Arg Val Arg Lys Ala Thr Gln Gln Ala Glu Gln Leu Ser Asn Glu Leu  
 1665 1670 1675 1680  
 Ala Thr Glu Arg Ser Thr Ala Gln Lys Asn Glu Ser Ala Arg Gln Gln  
 1685 1690 1695  
 Leu Glu Arg Gln Asn Lys Glu Leu Arg Ser Lys Leu His Glu Met Glu  
 1700 1705 1710  
 Gly Ala Val Lys Ser Lys Phe Lys Ser Thr Ile Ala Ala Leu Glu Ala  
 1715 1720 1725  
 Lys Ile Ala Gln Leu Glu Glu Gln Val Glu Gln Glu Ala Arg Glu Lys  
 1730 1735 1740  
 Gln Ala Ala Thr Lys Ser Leu Lys Gln Lys Asp Lys Lys Leu Lys Glu  
 1745 1750 1755 1760  
 Ile Leu Leu Gln Val Glu Asp Glu Arg Lys Met Ala Glu Gln Tyr Lys  
 1765 1770 1775  
 Glu Gln Ala Glu Lys Gly Asn Ala Arg Val Lys Gln Leu Lys Arg Gln  
 1780 1785 1790  
 Leu Glu Glu Ala Glu Glu Glu Ser Gln Arg Ile Asn Ala Asn Arg Arg  
 1795 1800 1805  
 Lys Leu Gln Arg Glu Leu Asp Glu Ala Thr Glu Ser Asn Glu Ala Met  
 1810 1815 1820  
 Gly Arg Glu Val Asn Ala Leu Lys Ser Lys Leu Arg Arg Gly Asn Glu  
 1825 1830 1835 1840  
 Thr Ser Phe Val Pro Ser Arg Arg Ser Gly Gly Arg Arg Val Ile Glu  
 1845 1850 1855  
 Asn Ala Asp Gly Ser Glu Glu Glu Thr Asp Thr Arg Asp Ala Asp Phe  
 1860 1865 1870

Asn Gly Thr Lys Ala Ser Glu  
1875 1879

<210> 1266  
<211> 257  
<212>Amino acid  
<213> Homo sapiens

<400> 1266  
Lys Leu His Phe Ala Lys Ser Leu Asn Ser Glu Leu Ser Cys Ser Thr  
1 5 10 15  
Arg Glu Ala Met Gln Asp Glu Asp Gly Tyr Ile Thr Leu Asn Ile Lys  
20 25 30  
Thr Arg Lys Pro Ala Leu Val Ser Val Gly Pro Ala Ser Ser Ser Trp  
35 40 45  
Trp Arg Val Met Ala Leu Ile Leu Leu Ile Leu Cys Val Gly Met Val  
50 55 60  
Val Gly Leu Val Ala Leu Gly Ile Trp Ser Val Met Gln Arg Asn Tyr  
65 70 75 80  
Leu Gln Asp Glu Asn Glu Asn Arg Thr Gly Thr Leu Gln Gln Leu Ala  
85 90 95  
Lys Arg Phe Cys Gln Tyr Val Val Lys Gln Ser Glu Leu Lys Gly Thr  
100 105 110  
Phe Lys Gly His Lys Cys Ser Pro Cys Asp Thr Asn Trp Arg Tyr Tyr  
115 120 125  
Gly Asp Ser Cys Tyr Gly Phe Phe Arg His Asn Leu Thr Trp Glu Glu  
130 135 140  
Ser Lys Gln Tyr Cys Thr Asp Met Asn Ala Thr Leu Leu Lys Ile Asp  
145 150 155 160  
Asn Arg Asn Ile Val Glu Tyr Ile Lys Ala Arg Thr His Leu Ile Arg  
165 170 175  
Trp Val Gly Leu Ser Arg Gln Lys Ser Asn Glu Val Trp Lys Trp Glu  
180 185 190  
Asp Gly Ser Val Ile Ser Glu Asn Met Phe Glu Phe Leu Glu Asp Gly  
195 200 205  
Lys Gly Asn Met Asn Cys Ala Tyr Phe His Asn Gly Lys Met His Pro  
210 215 220  
Thr Phe Cys Glu Asn Lys His Tyr Leu Met Cys Glu Arg Lys Ala Gly  
225 230 235 240  
His Asp Pro Arg Trp Thr Gln Leu Pro Leu Met Pro Lys Arg Trp Thr  
245 250 255  
Gly  
257

<210> 1267  
<211> 208  
<212>Amino acid  
<213> Homo sapiens

<400> 1267  
Asn Gln Gly Leu Arg Asp Val Gly Leu Cys Arg Thr Cys Leu Val Asn  
1 5 10 15  
Lys Ile Phe Ala Ser Ser Ile Leu Gly Lys Ser His His His Ser Leu  
20 25 30

Val Ser Ile Asn Gln Gly His Asn Ala Pro Trp Lys Ala Ala Gly Ser  
 35 40 45  
 Leu Pro Leu Lys Ala Ala Tyr Cys Gln Gly Phe Ser Pro Cys Asp Cys  
 50 55 60  
 Leu Lys Tyr Gly Ser Trp Asp Glu Lys Asp Leu Met Val Pro Gln Pro  
 65 70 75 80  
 Asp Thr His Lys Gly Ser Val Leu Arg Trp Ile Ser Lys Arg Gly Lys  
 85 90 95  
 Pro Leu Ala Val Glu Met Glu Glu Gly His Cys Leu Cys Leu Pro Leu  
 100 105 110  
 Gly Thr Glu Cys Leu Gly Val Lys Pro Ile Val His Leu Phe Asn Ser  
 115 120 125  
 Glu Met Gly Glu Lys Arg Pro Val Ala Gly Ala Arg His Val Gly Ser  
 130 135 140  
 Ser Ala Ala Leu Leu Phe Phe Thr Pro Leu Arg Cys Leu Gly Gly Glu  
 145 150 155 160  
 Lys His Lys Ser Gly Leu Arg Ala Arg Pro Gly Ile Val Pro Ser Leu  
 165 170 175  
 Glu Leu Asn Tyr Asp Ile Asp Ser Phe Ala His Met Phe Phe Ser Val  
 180 185 190  
 Asp Leu Leu Leu Ile Ile Thr Leu Leu Ser Tyr Tyr Ile Pro Phe Cys  
 195 200 205 208

<210> 1268  
 <211> 158  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1268  
 Met Trp Trp Arg Leu Ala Pro Thr Gln Ala Ile Trp Arg Ala Ala Gly  
 1 5 10 15  
 Cys Cys Met Arg Phe Ser Arg Arg Arg Ser Thr Cys Cys Cys Leu Ala  
 20 25 30  
 Ser Cys Ile Phe Leu Leu Tyr Lys Ile Val Arg Gly Asp Gln Pro Ala  
 35 40 45  
 Ala Lys Arg Arg Gln Arg Arg Arg Ala Ala Pro Ser Ala Pro Pro  
 50 55 60  
 Gln Ala Ala Arg Leu His Pro Pro Pro Lys Leu Arg Arg Phe Asp Gly  
 65 70 75 80  
 Val Gln Asp Pro Ala Pro Tyr Ser Trp Ala Ile Asn Gly Lys Val Phe  
 85 90 95  
 Asp Val Thr Gln Arg Pro Ala Asn Phe Leu Arg Gly Pro Arg Gly Pro  
 100 105 110  
 Glu Thr Leu Ser Asp Trp Glu Ser Gln Phe Thr Phe Lys Tyr His His  
 115 120 125  
 Val Gly Lys Leu Leu Lys Glu Gly Glu Glu Pro Thr Val Tyr Ser Asp  
 130 135 140  
 Glu Glu Glu Pro Lys Asp Glu Ser Ala Arg Lys Asn Asp \*  
 145 150 155 157

<210> 1269  
 <211> 178  
 <212> Amino acid  
 <213> Homo sapiens



&lt;400&gt; 1269

Gly Pro Arg Met Ala Lys Phe Leu Ser Gln Asp Gln Ile Asn Glu Tyr  
 1 5 10 15  
 Lys Glu Cys Phe Ser Leu Tyr Asp Lys Gln Gln Arg Gly Lys Ile Lys  
 20 25 30  
 Ala Thr Asp Leu Met Val Ala Met Arg Cys Leu Gly Ala Ser Pro Thr  
 35 40 45  
 Pro Gly Glu Val Gln Arg His Leu Gln Thr His Gly Ile Asp Gly Asn  
 50 55 60  
 Gly Glu Leu Asp Phe Ser Thr Phe Leu Thr Ile Met His Met Gln Ile  
 65 70 75 80  
 Lys Gln Glu Asp Pro Lys Lys Glu Ile Leu Leu Ala Met Leu Met Val  
 85 90 95  
 Asp Lys Glu Lys Lys Gly Tyr Val Met Ala Ser Asp Leu Arg Ser Lys  
 100 105 110  
 Leu Thr Ser Leu Gly Glu Lys Leu Thr His Lys Glu Val Asp Asp Leu  
 115 120 125  
 Phe Arg Glu Ala Asp Ile Glu Pro Asn Gly Lys Val Lys Tyr Asp Glu  
 130 135 140  
 Phe Ile His Lys Ile Thr Leu Leu Pro Gly Arg Asp Leu Leu Lys Glu  
 145 150 155 160  
 Glu Asn Gly Arg Ala Ser Pro Gly Pro Glu Asn Leu Glu Gln Leu Ile  
 165 170 175  
 Phe Leu  
 178

&lt;210&gt; 1270

&lt;211&gt; 457

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1270

Ala Asp Pro His Thr Thr Val Ile Arg Phe Phe Pro Ala Ala Ser Ala  
 1 5 10 15  
 Thr Lys Arg Val Leu Pro Pro Val Leu Arg Val Ser Ser Pro Arg Thr  
 20 25 30  
 Trp Asn Pro Asn Val Pro Glu Ser Pro Arg Ile Pro Ala Pro Arg Leu  
 35 40 45  
 Pro Lys Arg Met Ser Gly Ala Pro Thr Ala Gly Ala Ala Leu Met Leu  
 50 55 60  
 Cys Ala Ala Thr Ala Val Leu Leu Ser Ala Gln Gly Gly Pro Val Gln  
 65 70 75 80  
 Ser Lys Ser Pro Arg Phe Ala Ser Trp Asp Glu Met Asn Val Leu Ala  
 85 90 95  
 His Gly Leu Leu Gln Leu Gly Gln Gly Leu Arg Glu His Ala Glu Arg  
 100 105 110  
 Thr Arg Ser Gln Leu Ser Ala Leu Glu Arg Arg Leu Ser Ala Cys Gly  
 115 120 125  
 Ser Ala Cys Gln Gly Thr Glu Gly Ser Thr Asp Leu Pro Leu Ala Pro  
 130 135 140  
 Glu Ser Arg Val Asp Pro Glu Val Leu His Ser Leu Gln Thr Gln Leu  
 145 150 155 160  
 Lys Ala Gln Asn Ser Arg Ile Gln Gln Leu Phe His Lys Val Ala Gln  
 165 170 175  
 Gln Gln Arg His Leu Glu Lys Gln His Leu Arg Ile Gln His Leu Gln  
 180 185 190

Ser Gln Phe Gly Leu Leu Asp His Lys His Leu Asp His Glu Val Ala  
 195 200 205  
 Lys Pro Ala Arg Arg Lys Arg Leu Pro Glu Met Ala Gln Pro Val Asp  
 210 215 220  
 Pro Ala His Asn Val Ser Arg Leu His Arg Leu Pro Arg Asp Cys Gln  
 225 230 235 240  
 Glu Leu Phe Gln Val Gly Glu Arg Gln Ser Gly Leu Phe Glu Ile Gln  
 245 250 255  
 Pro Gln Gly Ser Pro Pro Phe Leu Val Asn Cys Lys Met Thr Ser Asp  
 260 265 270  
 Gly Gly Trp Thr Val Ile Gln Arg Arg His Asp Gly Ser Val Asp Phe  
 275 280 285  
 Asn Arg Pro Trp Glu Ala Tyr Lys Ala Gly Phe Gly Asp Pro His Gly  
 290 295 300  
 Glu Phe Trp Leu Gly Leu Glu Lys Val His Ser Ile Thr Gly Asp Arg  
 305 310 315 320  
 Asn Ser Arg Leu Ala Val Gln Leu Arg Asp Trp Asp Gly Asn Ala Glu  
 325 330 335  
 Leu Leu Gln Phe Ser Val His Leu Gly Gly Glu Asp Thr Ala Tyr Ser  
 340 345 350  
 Leu Gln Leu Thr Ala Pro Val Ala Gly Gln Leu Gly Ala Thr Thr Val  
 355 360 365  
 Pro Pro Ser Gly Leu Ser Val Pro Phe Ser Thr Trp Asp Gln Asp His  
 370 375 380  
 Asp Leu Arg Arg Asp Lys Asn Cys Ala Lys Ser Leu Ser Gly Gly Trp  
 385 390 395 400  
 Trp Phe Gly Thr Cys Ser His Ser Asn Leu Asn Gly Gln Tyr Phe Arg  
 405 410 415  
 Ser Ile Pro Gln Gln Arg Gln Lys Leu Lys Lys Gly Ile Phe Trp Lys  
 420 425 430  
 Thr Trp Arg Gly Arg Tyr Tyr Pro Leu Gln Ala Thr Thr Met Leu Ile  
 435 440 445  
 Gln Pro Met Ala Ala Glu Ala Ala Ser  
 450 455 457

&lt;210&gt; 1271

&lt;211&gt; 394

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1271

Ala Leu Asp Phe Gly Asp Ser Cys Gln Trp Pro Arg Pro Gln Asp Thr  
 1 5 10 15  
 Met Lys Gln Leu Pro Val Leu Glu Pro Gly Asp Lys Pro Arg Lys Ala  
 20 25 30  
 Thr Trp Tyr Thr Leu Thr Val Pro Gly Asp Ser Pro Cys Ala Arg Val  
 35 40 45  
 Gly His Ser Cys Ser Tyr Leu Pro Pro Val Gly Asn Ala Lys Arg Gly  
 50 55 60  
 Lys Val Phe Ile Val Gly Gly Ala Asn Pro Asn Arg Ser Phe Ser Asp  
 65 70 75 80  
 Val His Thr Met Asp Leu Gly Lys His Gln Trp Asp Leu Asp Thr Cys  
 85 90 95  
 Lys Gly Leu Leu Pro Arg Tyr Glu His Ala Ser Phe Ile Pro Ser Cys  
 100 105 110  
 Thr Pro Asp Arg Ile Trp Val Phe Gly Gly Ala Asn Gln Ser Gly Asn  
 115 120 125  
 Arg Asn Cys Leu Gln Val Leu Asn Pro Glu Thr Arg Thr Trp Thr Thr  
 130 135 140

Pro Glu Val Thr Ser Pro Pro Pro Ser Pro Arg Thr Phe His Thr Ser  
 145 150 155 160  
 Ser Ala Ala Ile Gly Asn Gln Leu Tyr Val Phe Gly Gly Gly Glu Arg  
 165 170 175  
 Gly Ala Gln Pro Val Gln Asp Thr Lys Leu His Val Phe Asp Ala Asn  
 180 185 190  
 Thr Leu Thr Trp Ser Gln Pro Glu Thr Leu Gly Asn Pro Pro Ser Pro  
 195 200 205  
 Arg His Gly His Val Met Val Ala Ala Gly Thr Lys Leu Phe Ile His  
 210 215 220  
 Gly Gly Leu Ala Gly Asp Arg Phe Tyr Asp Asp Leu His Cys Ile Asp  
 225 230 235 240  
 Ile Ser Asp Met Lys Trp Gln Lys Leu Asn Pro Thr Gly Ala Ala Pro  
 245 250 255  
 Ala Gly Cys Ala Ser His Thr Pro Ala Val Ala Met Gly Lys His Val  
 260 265 270  
 Tyr Ile Phe Gly Gly Met Thr Pro Ala Gly Ala Pro Gly Thr Gln Cys  
 275 280 285  
 Thr Gln Tyr His Thr Glu Glu Gln His Trp Asp Pro Cys Leu Lys Phe  
 290 295 300  
 Asp Thr Pro Ser Tyr Pro Pro Gly Thr Ile Gly Thr His Ser His Val  
 305 310 315 320  
 Val Ser Phe Pro Trp Pro Val Thr Cys Ala Ser Glu Lys Glu Asp Ser  
 325 330 335  
 Asn Ser Leu Thr Leu Asn His Glu Ala Glu Lys Glu Asp Ser Ala Asp  
 340 345 350  
 Lys Val Met Ser His Ser Gly Asp Ser His Glu Glu Ser Gln Thr Ala  
 355 360 365  
 Thr Leu Leu Cys Leu Val Phe Gly Gly Met Asn Thr Glu Gly Glu Ile  
 370 375 380  
 Tyr Asp Asp Cys Ile Val Thr Val Val Asp  
 385 390 394

&lt;210&gt; 1272

&lt;211&gt; 176

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1272

Gly Phe Ser Ile Gly Lys Ala Thr Asp Arg Met Asp Ala Phe Arg Lys  
 1 5 10 15  
 Ala Lys Asn Arg Ala Val His His Leu His Tyr Ile Glu Arg Tyr Glu  
 20 25 30  
 Asp His Thr Ile Phe His Asp Ile Ser Leu Arg Phe Lys Arg Thr His  
 35 40 45  
 Ile Lys Met Lys Lys Gln Pro Lys Gly Tyr Gly Leu Arg Cys His Arg  
 50 55 60  
 Ala Ile Ile Thr Ile Cys Arg Leu Ile Gly Ile Lys Asp Met Tyr Ala  
 65 70 75 80  
 Lys Val Ser Gly Ser Ile Asn Met Leu Ser Leu Thr Gln Gly Leu Phe  
 85 90 95  
 Arg Gly Leu Ser Arg Gln Glu Thr His Gln Gln Leu Ala Asp Lys Lys  
 100 105 110  
 Gly Leu His Val Val Glu Ile Arg Glu Glu Cys Gly Pro Leu Pro Ile  
 115 120 125  
 Val Val Ala Ser Pro Arg Gly Pro Leu Arg Lys Asp Pro Glu Pro Glu  
 130 135 140  
 Asp Glu Val Pro Asp Val Lys Leu Asp Trp Glu Asp Val Lys Thr Ala  
 145 150 155 160

Gln Gly Met Lys Arg Ser Val Trp Ser Asn Leu Lys Arg Ala Ala Thr  
 165 170 175 176

<210> 1273  
 <211> 457  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1273  
 Ala Asp Pro His Thr Thr Val Ile Arg Phe Phe Pro Ala Ala Ser Ala  
 1 5 10 15  
 Thr Lys Arg Val Leu Pro Pro Val Leu Arg Val Ser Ser Pro Arg Thr  
 20 25 30  
 Trp Asn Pro Asn Val Pro Glu Ser Pro Arg Ile Pro Ala Pro Arg Leu  
 35 40 45  
 Pro Lys Arg Met Ser Gly Ala Pro Thr Ala Gly Ala Ala Leu Met Leu  
 50 55 60  
 Cys Ala Ala Thr Ala Val Leu Leu Ser Ala Gln Gly Gly Pro Val Gln  
 65 70 75 80  
 Ser Lys Ser Pro Arg Phe Ala Ser Trp Asp Glu Met Asn Val Leu Ala  
 85 90 95  
 His Gly Leu Leu Gln Leu Gly Gln Gly Leu Arg Glu His Ala Glu Arg  
 100 105 110  
 Thr Arg Ser Gln Leu Ser Ala Leu Glu Arg Arg Leu Ser Ala Cys Gly  
 115 120 125  
 Ser Ala Cys Gln Gly Thr Glu Gly Ser Thr Asp Leu Pro Leu Ala Pro  
 130 135 140  
 Glu Ser Arg Val Asp Pro Glu Val Leu His Ser Leu Gln Thr Gln Leu  
 145 150 155 160  
 Lys Ala Gln Asn Ser Arg Ile Gln Gln Leu Phe His Lys Val Ala Gln  
 165 170 175  
 Gln Gln Arg His Leu Glu Lys Gln His Leu Arg Ile Gln His Leu Gln  
 180 185 190  
 Ser Gln Phe Gly Leu Leu Asp His Lys His Leu Asp His Glu Val Ala  
 195 200 205  
 Lys Pro Ala Arg Arg Lys Arg Leu Pro Glu Met Ala Gln Pro Val Asp  
 210 215 220  
 Pro Ala His Asn Val Ser Arg Leu His Arg Leu Pro Arg Asp Cys Gln  
 225 230 235 240  
 Glu Leu Phe Gln Val Gly Glu Arg Gln Ser Gly Leu Phe Glu Ile Gln  
 245 250 255  
 Pro Gln Gly Ser Pro Pro Phe Leu Val Asn Cys Lys Met Thr Ser Asp  
 260 265 270  
 Gly Gly Trp Thr Val Ile Gln Arg Arg His Asp Gly Ser Val Asp Phe  
 275 280 285  
 Asn Arg Pro Trp Glu Ala Tyr Lys Ala Gly Phe Gly Asp Pro His Gly  
 290 295 300  
 Glu Phe Trp Leu Gly Leu Glu Lys Val His Ser Ile Thr Gly Asp Arg  
 305 310 315 320  
 Asn Ser Arg Leu Ala Val Gln Leu Arg Asp Trp Asp Gly Asn Ala Glu  
 325 330 335  
 Leu Leu Gln Phe Ser Val His Leu Gly Gly Glu Asp Thr Ala Tyr Ser  
 340 345 350  
 Leu Gln Leu Thr Ala Pro Val Ala Gly Gln Leu Gly Ala Thr Thr Val  
 355 360 365  
 Pro Pro Ser Gly Leu Ser Val Pro Phe Ser Thr Trp Asp Gln Asp His  
 370 375 380

Asp Leu Arg Arg Asp Lys Asn Cys Ala Lys Ser Leu Ser Gly Gly Trp  
 385 390 395 400  
 Trp Phe Gly Thr Cys Ser His Ser Asn Leu Asn Gly Gln Tyr Phe Arg  
 405 410 415  
 Ser Ile Pro Gln Arg Gln Lys Leu Lys Lys Gly Ile Phe Trp Lys  
 420 425 430  
 Thr Trp Arg Gly Arg Tyr Tyr Pro Leu Gln Ala Thr Thr Met Leu Ile  
 435 440 445  
 Gln Pro Met Ala Ala Glu Ala Ala Ser  
 450 455 457

<210> 1274  
 <211> 359  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1274  
 Thr Leu Arg Ser Arg Pro Ala Gly Glu Ala Gly Tyr Leu Gly Trp Asp  
 1 5 10 15  
 Pro Glu Gln Ala Gly Glu Gly Ser Ala Leu Ser Arg Pro Gly Ala Met  
 20 25 30  
 Ala Ala Leu Met Thr Pro Gly Thr Gly Ala Pro Pro Ala Pro Gly Asp  
 35 40 45  
 Phe Ser Gly Glu Gly Ser Gln Gly Leu Pro Asp Pro Ser Pro Glu Pro  
 50 55 60  
 Lys Gln Leu Pro Glu Leu Ile Arg Met Lys Arg Asp Gly Gly Arg Leu  
 65 70 75 80  
 Ser Glu Ala Asp Ile Arg Gly Phe Val Ala Ala Val Val Asn Gly Ser  
 85 90 95  
 Ala Gln Gly Ala Gln Ile Gly Ala Trp Gly Gly Leu Gly Val Pro Asp  
 100 105 110  
 Pro Asp Trp Glu Val Ser Pro Arg Asp Phe Gly Ser Leu Gly Val Arg  
 115 120 125  
 Arg Cys Pro Thr Thr Ser Thr Gly Pro Arg Val Pro His Arg Cys Gly  
 130 135 140  
 Leu Pro Pro Ser Arg Val Pro Pro His Thr Arg Gly Met Leu Met Ala  
 145 150 155 160  
 Ile Arg Leu Arg Gly Met Asp Leu Glu Glu Thr Ser Val Leu Thr Gln  
 165 170 175  
 Ala Leu Ala Gln Ser Gly Gln Gln Leu Glu Trp Pro Glu Ala Trp Arg  
 180 185 190  
 Gln Gln Leu Val Asp Lys His Ser Thr Gly Gly Val Gly Asp Lys Val  
 195 200 205  
 Ser Leu Val Leu Ala Pro Ala Leu Ala Ala Cys Gly Cys Lys Val Ile  
 210 215 220  
 Asn His Leu Leu Ser Arg Arg Glu Pro Ile Pro His Met Gln Gln Pro  
 225 230 235 240  
 Val His Pro Gln Ala Ala Pro Asn Leu Lys Pro Gly Pro Lys Pro Pro  
 245 250 255  
 Arg Pro Tyr Gln Gly Phe Ser Pro Pro Cys Ser Pro Ala Gln Phe Ser  
 260 265 270  
 Pro Pro Arg Ser Pro Ala Gln Arg Leu Gly Pro Leu Trp Leu Gln Thr  
 275 280 285  
 Arg Pro Leu Gly Ala Gly Lys Arg Ser Thr Asp Gly Ile Gln Thr Pro  
 290 295 300  
 Phe Pro Leu Gly Pro Gln Thr Ala Pro Pro Arg Glu Glu Leu Arg Thr  
 305 310 315 320  
 Ser Leu Pro Leu Pro Gln Ala Leu Phe Pro Gln Gly Gln Val Pro Thr  
 325 330 335

Ser Ser Pro Thr Asp Thr Ser Gln Pro Arg Lys Leu Pro Phe His Ser  
                   340                  345                  350  
 Leu Thr Ser Trp Ala Pro Leu  
                   355                  359

<210> 1275  
 <211> 146  
 <212>Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(146)  
 <223> X = any amino acid or stop code

<400> 1275  
 Arg Ala Leu Arg Glu Leu Arg Glu Arg Val Thr His Gly Leu Ala Glu  
   1                  5                  10                  15  
 Ala Gly Arg Asp Arg Glu Asp Val Ser Thr Glu Leu Tyr Arg Ala Leu  
                   20                  25                  30  
 Glu Ala Val Arg Leu Gln Asn Ser Glu Gly Ser Cys Glu Pro Cys Pro  
                   35                  40                  45  
 Thr Ser Trp Leu Pro Phe Gly Gly Ser Cys Tyr Tyr Phe Ser Val Pro  
                   50                  55                  60  
 Lys Thr Thr Trp Ala Glu Ala Gln Gly His Cys Ala Asp Ala Ser Ala  
   65                  70                  75                  80  
 His Leu Ala Ile Val Gly Gly Leu Gly Glu Gln Asp Phe Leu Ser Arg  
                   85                  90                  95  
 Asp Thr Ser Ala Leu Glu Tyr Trp Ile Gly Arg Arg Ala Val Gln His  
                   100                  105                  110  
 Leu Arg Lys Val Gln Gly Tyr Ser Trp Val Asp Gly Val Pro Leu Ser  
                   115                  120                  125  
 Phe Arg Xaa Trp Glu Gly His Pro Gly Glu Thr Trp Gly Pro Gln Val  
                   130                  135                  140  
 Arg Leu  
 145 146

<210> 1276  
 <211> 187  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1276  
 Arg Trp Pro Arg Ser Trp Pro Pro Arg Ala Gly Ala Ala Arg Gly Ala  
   1                  5                  10                  15  
 Ala Glu Ala Ala Met Val Gly Ala Leu Cys Gly Cys Trp Phe Arg Leu  
                   20                  25                  30  
 Gly Gly Ala Arg Pro Leu Ile Pro Leu Gly Pro Thr Val Val Gln Thr  
                   35                  40                  45  
 Ser Met Ser Arg Ser Gln Val Ala Leu Leu Gly Leu Ser Leu Leu Leu  
                   50                  55                  60  
 Met Leu Leu Leu Tyr Val Gly Leu Pro Gly Pro Pro Glu Gln Thr Ser  
   65                  70                  75                  80  
 Cys Leu Trp Gly Asp Pro Asn Val Thr Val Leu Ala Gly Leu Thr Pro

				85					90				95				
Gly	Asn	Ser	Pro	Ile	Phe	Tyr	Arg	Glu	Val	Leu	Pro	Leu	Asn	Gln	Ala		
			100						105				110				
His	Arg	Val	Glu	Val	Cys	Cys	Phe	Met	Glu	Arg	Pro	Leu	Thr	Leu	Thr		
		115					120					125					
Arg	Gly	Ser	Ser	Trp	Ala	His	Cys	Ser	Tyr	Cys	His	Arg	Gly	Ala	Thr		
	130					135						140					
Gly	Pro	Trp	Pro	Leu	Thr	Phe	Gln	Val	Leu	Gly	Thr	Arg	His	Leu	Gln		
145					150					155					160		
Arg	Arg	Gln	Ala	Gln	Arg	Gln	Gly	Gly	Gln	Arg	Cys	Trp	Ser	Gly	Arg		
			165						170					175			
Cys	Gly	Thr	Trp	Arg	Tyr	Arg	Met	Pro	Cys	Trp							
			180					185		187							

&lt;210&gt; 1277

&lt;211&gt; 481

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1277

Gln	Glu	Asn	Gln	Leu	Glu	Lys	Lys	Met	Lys	Phe	Leu	Ile	Phe	Ala	Phe		
1				5					10					15			
Phe	Gly	Gly	Val	His	Leu	Leu	Ser	Leu	Cys	Ser	Gly	Lys	Ala	Ile	Cys		
			20					25					30				
Lys	Asn	Gly	Ile	Ser	Lys	Arg	Thr	Phe	Glu	Glu	Ile	Lys	Glu	Glu	Ile		
	35					40						45					
Ala	Ser	Cys	Gly	Asp	Val	Ala	Lys	Ala	Ile	Ile	Asn	Leu	Ala	Val	Tyr		
	50					55					60						
Gly	Lys	Ala	Gln	Asn	Arg	Ser	Tyr	Glu	Arg	Leu	Ala	Leu	Leu	Val	Asp		
65				70						75					80		
Thr	Val	Gly	Pro	Arg	Leu	Ser	Gly	Ser	Lys	Asn	Leu	Glu	Lys	Ala	Ile		
				85					90					95			
Gln	Ile	Met	Tyr	Gln	Asn	Leu	Gln	Gln	Asp	Gly	Leu	Glu	Lys	Val	His		
		100						105					110				
Leu	Glu	Pro	Val	Arg	Ile	Pro	His	Trp	Glu	Arg	Gly	Glu	Glu	Ser	Ala		
	115					120						125					
Val	Met	Leu	Glu	Pro	Arg	Ile	His	Lys	Ile	Ala	Ile	Leu	Gly	Leu	Gly		
	130					135						140					
Ser	Ser	Ile	Gly	Thr	Pro	Pro	Glu	Gly	Ile	Thr	Ala	Glu	Val	Leu	Val		
145				150						155					160		
Val	Thr	Ser	Phe	Asp	Glu	Leu	Gln	Arg	Arg	Ala	Ser	Glu	Ala	Arg	Gly		
			165					170						175			
Lys	Ile	Val	Val	Tyr	Asn	Gln	Pro	Tyr	Ile	Asn	Tyr	Ser	Arg	Thr	Val		
		180						185					190				
Gln	Tyr	Arg	Thr	Gln	Gly	Ala	Val	Glu	Ala	Ala	Lys	Val	Gly	Ala	Leu		
	195					200						205					
Ala	Ser	Leu	Ile	Arg	Ser	Val	Ala	Ser	Phe	Ser	Ile	Tyr	Ser	Pro	His		
	210					215						220					
Thr	Gly	Ile	Gln	Glu	Tyr	Gln	Asp	Gly	Val	Pro	Lys	Ile	Pro	Thr	Ala		
225				230						235					240		
Cys	Ile	Thr	Val	Glu	Asp	Ala	Glu	Met	Met	Ser	Arg	Met	Ala	Ser	His		
			245					250						255			
Gly	Ile	Lys	Ile	Val	Ile	Gln	Leu	Lys	Met	Gly	Ala	Lys	Thr	Tyr	Pro		
	260					265							270				
Asp	Thr	Asp	Ser	Phe	Asn	Thr	Val	Ala	Glu	Ile	Thr	Gly	Ser	Lys	Tyr		
	275					280						285					
Pro	Glu	Gln	Val	Val	Leu	Val	Ser	Gly	His	Leu	Asp	Ser	Trp	Asp	Val		
	290					295					300						
Gly	Gln	Gly	Ala	Met	Asp	Asp	Gly	Gly	Gly	Ala	Phe	Ile	Ser	Trp	Glu		

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305          310          315          320
Ala Leu Ser Leu Ile Lys Asp Leu Gly Leu Arg Pro Lys Arg Thr Leu
          325          330          335
Arg Leu Val Leu Trp Thr Ala Glu Glu Gln Gly Gly Val Gly Ala Phe
          340          345          350
Gln Tyr Tyr Gln Leu His Lys Val Asn Ile Ser Asn Tyr Ser Leu Val
          355          360          365
Met Glu Ser Asp Ala Gly Thr Phe Leu Pro Thr Gly Leu Gln Phe Thr
          370          375          380
Gly Ser Glu Lys Ala Arg Ala Ile Met Glu Glu Val Met Ser Leu Leu
385          390          395          400
Gln Pro Leu Asn Ile Thr Gln Val Leu Ser His Gly Glu Gly Thr Asp
          405          410          415
Ile Asn Phe Trp Ile Gln Ala Gly Val Pro Gly Ala Ser Leu Leu Asp
          420          425          430
Asp Leu Tyr Lys Tyr Phe Phe Phe His His Ser His Gly Asp Thr Met
          435          440          445
Thr Val His Gly Ile Gln Thr Gln Met Asn Val Ala Ala Ala Val Trp
          450          455          460
Ala Val Val Ser Tyr Val Val Ala Asp Met Glu Glu Met Leu Pro Arg
465          470          475          480
Ser
481

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<210> 1278
<211> 428
<212>Amino acid
<213> Homo sapiens

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<400> 1278
Thr Lys Pro Arg Lys Arg Arg His Gln Pro Ala Ser Gln Arg Gln Arg
 1          5          10          15
Pro Trp Ser Ser Asp Ser Thr Gly Asp Leu Leu Ala Arg Gly Lys Gly
          20          25          30
Arg Lys Glu Glu Asn Lys Gly Ser Asp Arg Val Ser Leu Ala Pro Pro
          35          40          45
Ser Leu Arg Arg Pro Met Met Cys Gln Ser Glu Ala Arg Gln Gly Pro
50          55          60
Glu Leu Arg Ala Ala Lys Trp Leu His Phe Pro Gln Leu Ala Leu Arg
65          70          75          80
Arg Arg Leu Gly Gln Leu Ser Cys Met Ser Arg Pro Ala Leu Lys Leu
          85          90          95
Arg Ser Trp Pro Leu Thr Val Leu Tyr Tyr Leu Leu Pro Phe Gly Ala
          100          105          110
Leu Arg Pro Leu Ser Arg Val Gly Trp Arg Pro Val Ser Arg Val Ala
          115          120          125
Leu Tyr Lys Ser Val Pro Thr Arg Leu Leu Ser Arg Ala Trp Gly Arg
          130          135          140
Leu Asn Gln Val Glu Leu Pro His Trp Leu Arg Arg Pro Val Tyr Ser
145          150          155          160
Leu Tyr Ile Trp Thr Phe Gly Val Asn Met Lys Glu Ala Ala Val Glu
          165          170          175
Asp Leu His His Tyr Arg Asn Leu Ser Glu Phe Phe Arg Arg Lys Leu
          180          185          190
Lys Pro Gln Ala Arg Pro Val Cys Gly Leu His Ser Val Ile Ser Pro
          195          200          205
Ser Asp Gly Arg Ile Leu Asn Phe Gly Gln Val Lys Asn Cys Glu Val
          210          215          220
Glu Gln Val Lys Gly Val Thr Tyr Ser Leu Glu Ser Phe Leu Gly Pro

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225          230          235          240
Arg Met Cys Thr Glu Asp Leu Pro Phe Pro Pro Ala Ala Ser Cys Asp
          245          250          255
Ser Phe Lys Asn Gln Leu Val Thr Arg Glu Gly Asn Glu Leu Tyr His
          260          265          270
Cys Val Ile Tyr Leu Ala Pro Gly Asp Tyr His Cys Phe His Ser Pro
          275          280          285
Thr Asp Trp Thr Val Ser His Arg Arg His Phe Pro Gly Ser Leu Met
          290          295          300
Ser Val Asn Pro Gly Met Ala Arg Trp Ile Lys Glu Leu Phe Cys His
305          310          315          320
Asn Glu Arg Val Val Leu Thr Gly Asp Trp Lys His Gly Phe Phe Ser
          325          330          335
Leu Thr Ala Val Gly Ala Thr Asn Trp Gly Ser Ile Arg Ile Tyr Phe
          340          345          350
Asp Arg Asp Leu His Thr Asn Ser Pro Arg His Ser Lys Gly Ser Tyr
          355          360          365
Asn Asp Phe Ser Phe Val Thr His Thr Asn Arg Glu Gly Val Pro Met
          370          375          380
Arg Lys Gly Glu His Leu Gly Glu Phe Asn Leu Gly Ser Thr Ile Val
385          390          395          400
Leu Ile Phe Glu Ala Pro Lys Asp Phe Asn Phe Gln Leu Lys Thr Gly
          405          410          415
Gln Lys Ile Arg Phe Gly Glu Ala Leu Gly Ser Leu
          420          425          428

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<210> 1279  
 <211> 633  
 <212> Amino acid  
 <213> Homo sapiens

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          <400> 1279
Leu Pro Glu Arg Ala Phe Gly Pro Arg Thr Pro Arg Ala Pro Arg Arg
1          5          10          15
Arg Arg Arg Arg Leu Leu Leu Ser Pro Pro Pro Arg Pro Pro Pro
          20          25          30
Leu Asp Arg Glu Pro Arg Ala Pro Gly Pro Trp Leu Cys Pro Ser Arg
          35          40          45
Ala Gly Thr Ala Gln Asp Pro Ala Arg Ile Arg Glu Arg Arg Gly Arg
          50          55          60
Val Ala Gly Gly Ala Ala Gly Pro Ala Met Glu Leu Arg Ala Arg Gly
          65          70          75          80
Trp Trp Leu Leu Cys Ala Ala Ala Ala Leu Val Ala Cys Ala Arg Gly
          85          90          95
Asp Pro Ala Ser Lys Ser Arg Ser Cys Gly Glu Val Arg Gln Ile Tyr
          100          105          110
Gly Ala Lys Gly Phe Ser Ser Ser Asp Val Pro Gln Ala Glu Ile Ser
          115          120          125
Gly Glu His Leu Arg Ile Cys Pro Gln Gly Tyr Thr Cys Cys Thr Ser
          130          135          140
Glu Met Glu Glu Asn Leu Ala Asn Arg Ser His Ala Glu Leu Glu Thr
145          150          155          160
Ala Leu Arg Asp Ser Ser Arg Val Leu Gln Ala Met Leu Ala Thr Gln
          165          170          175
Leu Arg Ser Phe Asp Asp His Phe Gln His Leu Leu Asn Asp Ser Glu
          180          185          190
Arg Thr Leu Gln Ala Thr Phe Pro Gly Ala Phe Gly Glu Leu Tyr Thr
          195          200          205
Gln Asn Ala Arg Ala Phe Arg Asp Leu Tyr Ser Glu Leu Arg Leu Tyr

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210	215	220
Tyr Arg Gly Ala Asn Leu His Leu Glu Glu Thr Leu Ala Glu Phe Trp		
225	230	235
Ala Arg Leu Leu Glu Arg Leu Phe Lys Gln Leu His Pro Gln Leu Leu		240
	245	250
Leu Pro Asp Asp Tyr Leu Asp Cys Leu Gly Lys Gln Ala Glu Ala Leu		255
	260	265
Arg Pro Phe Gly Glu Ala Pro Arg Glu Leu Arg Leu Arg Ala Thr Arg		270
	275	280
Ala Phe Val Ala Ala Arg Ser Phe Val Gln Gly Leu Gly Val Ala Ser		285
	290	295
Asp Val Val Arg Lys Val Ala Gln Val Pro Leu Gly Pro Glu Cys Ser		300
305	310	315
Arg Ala Val Ile Glu Ala Gly Ser Tyr Cys Ala Leu His Cys Val Gly		320
	325	330
Val Pro Gly Ala Arg Pro Cys Pro Asp Tyr Cys Arg Asn Val Leu Lys		335
	340	345
Gly Cys Leu Ala Asn Gln Ala Asp Leu Asp Ala Glu Trp Arg Asn Leu		350
	355	360
Leu Asp Ser Met Val Leu Ile Thr Asp Lys Phe Trp Gly Thr Ser Gly		365
	370	375
Val Glu Ser Val Ile Gly Ser Val His Thr Trp Leu Ala Glu Ala Ile		380
385	390	395
Asn Ala Leu Gln Asp Asn Arg Asp Thr Leu Thr Ala Lys Val Ile Gln		400
	405	410
Gly Cys Gly Asn Pro Lys Val Asn Pro Gln Gly Pro Gly Pro Glu Glu		415
	420	425
Lys Arg Arg Arg Gly Lys Leu Ala Pro Arg Glu Arg Pro Pro Ser Gly		430
	435	440
Thr Leu Glu Lys Leu Val Ser Glu Ala Lys Ala Gln Leu Arg Asp Val		445
	450	455
Gln Asp Phe Trp Ile Ser Leu Pro Gly Thr Leu Cys Ser Glu Lys Met		460
465	470	475
Ala Leu Ser Thr Ala Ser Asp Asp Arg Cys Trp Asn Gly Met Ala Arg		480
	485	490
Gly Arg Tyr Leu Pro Glu Val Met Gly Asp Gly Leu Ala Asn Gln Ile		495
	500	505
Asn Asn Pro Glu Val Glu Val Asp Ile Thr Lys Pro Asp Met Thr Ile		510
	515	520
Arg Gln Gln Ile Met Gln Leu Lys Ile Met Thr Asn Arg Leu Arg Ser		525
	530	535
Ala Tyr Asn Gly Asn Asp Val Asp Phe Gln Asp Ala Ser Asp Asp Gly		540
545	550	555
Ser Gly Ser Gly Ser Gly Asp Gly Cys Leu Asp Asp Leu Cys Gly Arg		560
	565	570
Lys Val Ser Arg Lys Ser Ser Ser Ser Arg Thr Pro Leu Thr His Ala		575
	580	585
Leu Pro Gly Leu Ser Glu Gln Glu Gly Gln Lys Thr Ser Ala Ala Ser		590
	595	600
Cys Pro Gln Pro Pro Thr Phe Leu Leu Pro Leu Leu Leu Phe Leu Ala		605
610	615	620
Leu Thr Val Ala Arg Pro Arg Trp Arg		
625	630	633

&lt;210&gt; 1280

&lt;211&gt; 133

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(133)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1280

Ala Thr Glu Leu Thr Arg Ala Gly Met Glu Ala Ser Ala Leu Thr Lys  
 1 5 10 15  
 Ser Ala Val Thr Ser Val Ala Lys Val Val Arg Val Ala Ser Gly Ser  
 20 25 30  
 Ala Val Val Leu Pro Leu Ala Arg Ile Ala Thr Ser Cys Asp Xaa Arg  
 35 40 45  
 Val Gly Gly Pro Val Gln Ala Val Pro Met Val Leu Ser Ala Met Gly  
 50 55 60  
 Leu Gln Leu Arg Ala Gly Ile Ala Ser Ser Ser Ile Ala Ala Lys Met  
 65 70 75 80  
 Met Ser Ala Ala Ala Ile Ala Asn Gly Gly Gly Val Ser Pro Gly Gln  
 85 90 95  
 Pro Leu Trp Leu Leu Leu Gln Ser Leu Gly Ala Thr Gly Leu Ser Gly  
 100 105 110  
 Leu Thr Lys Phe Ile Leu Gly Ser Ile Gly Ser Ala Ile Ala Ala Val  
 115 120 125  
 Ile Ala Arg Phe Tyr  
 130 133

&lt;210&gt; 1281

&lt;211&gt; 457

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1281

Thr Asn Gly Arg Asn Leu Leu His His Trp Ile Leu Gly Val Cys Gly  
 1 5 10 15  
 Met His Pro His His Gln Glu Thr Leu Lys Lys Asn Arg Val Val Leu  
 20 25 30  
 Ala Lys Gln Leu Leu Leu Ser Glu Leu Leu Glu His Leu Leu Glu Lys  
 35 40 45  
 Asp Ile Ile Thr Leu Glu Met Arg Glu Leu Ile Gln Ala Lys Val Gly  
 50 55 60  
 Ser Phe Ser Gln Asn Val Glu Leu Leu Asn Leu Leu Pro Lys Arg Gly  
 65 70 75 80  
 Pro Gln Ala Phe Asp Ala Phe Cys Glu Ala Leu Arg Glu Thr Lys Gln  
 85 90 95  
 Gly His Leu Glu Asp Met Leu Leu Thr Thr Leu Ser Gly Leu Gln His  
 100 105 110  
 Val Leu Pro Pro Leu Ser Cys Asp Tyr Asp Leu Ser Leu Pro Phe Pro  
 115 120 125  
 Val Cys Glu Ser Cys Pro Leu Tyr Lys Lys Leu Arg Leu Ser Thr Asp  
 130 135 140  
 Thr Val Glu His Ser Leu Asp Asn Lys Asp Gly Pro Val Cys Leu Gln  
 145 150 155 160  
 Val Lys Pro Cys Thr Pro Glu Phe Tyr Gln Thr His Phe Gln Leu Ala  
 165 170 175  
 Tyr Arg Leu Gln Ser Arg Pro Arg Gly Leu Ala Leu Val Leu Ser Asn  
 180 185 190  
 Val His Phe Thr Gly Glu Lys Glu Leu Glu Phe Arg Ser Gly Gly Asp  
 195 200 205  
 Val Asp His Ser Thr Leu Val Thr Leu Phe Lys Leu Leu Gly Tyr Asp  
 210 215 220

Val His Val Leu Cys Asp Gln Thr Ala Gln Glu Met Gln Glu Lys Leu  
 225 230 235 240  
 Gln Asn Phe Ala Gln Leu Pro Ala His Arg Val Thr Asp Ser Cys Ile  
 245 250 255  
 Val Ala Leu Leu Ser His Gly Val Glu Gly Ala Ile Tyr Gly Val Asp  
 260 265 270  
 Gly Lys Leu Leu Gln Leu Gln Glu Val Phe Gln Leu Phe Asp Asn Ala  
 275 280 285  
 Asn Cys Pro Ser Leu Gln Asn Lys Pro Lys Met Phe Phe Ile Gln Ala  
 290 295 300  
 Cys Arg Gly Gly Ala Ile Gly Ser Leu Gly His Leu Leu Leu Phe Thr  
 305 310 315 320  
 Ala Ala Thr Ala Ser Leu Ala Leu Glu Thr Asp Arg Gly Val Asp Gln  
 325 330 335  
 Gln Asp Gly Lys Asn His Ala Gly Ser Pro Gly Cys Glu Glu Ser Asp  
 340 345 350  
 Ala Gly Lys Glu Lys Leu Pro Lys Met Arg Leu Pro Thr Arg Ser Asp  
 355 360 365  
 Met Ile Cys Gly Tyr Ala Cys Leu Lys Gly Thr Ala Ala Met Arg Asn  
 370 375 380  
 Thr Lys Arg Gly Ser Trp Tyr Ile Glu Ala Leu Ala Gln Val Phe Ser  
 385 390 395 400  
 Glu Arg Ala Cys Asp Met His Val Ala Asp Met Leu Val Lys Val Asn  
 405 410 415  
 Ala Leu Ile Lys Asp Arg Glu Gly Tyr Ala Pro Gly Thr Glu Phe His  
 420 425 430  
 Arg Cys Lys Glu Met Ser Glu Tyr Cys Ser Thr Leu Cys Arg His Leu  
 435 440 445  
 Tyr Leu Phe Pro Gly His Pro Pro Thr  
 450 455 457

&lt;210&gt; 1282

&lt;211&gt; 195

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1282

Val Arg Gly Lys Glu Val Met Ala Ala Leu Cys Arg Thr Arg Ala Val  
 1 5 10 15  
 Ala Ala Glu Ser His Phe Leu Arg Val Phe Leu Phe Phe Arg Pro Phe  
 20 25 30  
 Arg Gly Val Gly Thr Glu Ser Gly Ser Glu Ser Gly Ser Ser Asn Ala  
 35 40 45  
 Lys Glu Pro Lys Thr Arg Ala Gly Gly Phe Ala Ser Ala Leu Glu Arg  
 50 55 60  
 His Ser Glu Leu Leu Gln Lys Val Glu Pro Leu Gln Lys Gly Ser Pro  
 65 70 75 80  
 Lys Asn Val Glu Ser Phe Ala Ser Met Leu Arg His Ser Pro Leu Thr  
 85 90 95  
 Gln Met Gly Pro Ala Lys Asp Lys Leu Val Ile Gly Arg Ile Phe His  
 100 105 110  
 Ile Val Glu Asn Asp Leu Tyr Ile Asp Phe Gly Gly Lys Phe His Cys  
 115 120 125  
 Val Cys Arg Arg Pro Glu Val Asp Gly Glu Lys Tyr Gln Lys Gly Thr  
 130 135 140  
 Arg Val Arg Leu Arg Leu Leu Asp Leu Glu Leu Thr Ser Arg Phe Leu  
 145 150 155 160  
 Gly Ala Thr Thr Asp Thr Thr Val Leu Glu Ala Asn Ala Val Leu Leu  
 165 170 175

Gly Ile Gln Glu Ser Lys Asp Ser Arg Ser Lys Glu Glu His Leu Glu  
 180 185 190  
 Lys Tyr Ile  
 195

<210> 1283  
 <211> 1499  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1283  
 Ile Pro Gly Ala Ser Pro Ala Pro Arg Arg Ala Ala Pro Leu Arg Leu  
 1 5 10 15  
 Gly Leu Arg Leu Ala Ser Gly Trp Ala Arg Ala Pro Gly Gly Val Ser  
 20 25 30  
 Pro Val Pro Gly Pro Gly Met Gly Gly Asp Ala Pro Thr Met Ala Arg  
 35 40 45  
 Ala Gln Ala Leu Val Leu Glu Leu Thr Phe Gln Leu Cys Ala Pro Glu  
 50 55 60  
 Thr Glu Thr Pro Glu Val Gly Cys Thr Phe Glu Glu Gly Ser Asp Pro  
 65 70 75 80  
 Ala Val Pro Cys Glu Tyr Ser Gln Ala Gln Tyr Asp Asp Phe Gln Trp  
 85 90 95  
 Glu Gln Val Arg Ile His Pro Gly Thr Arg Ala Pro Ala Asp Leu Pro  
 100 105 110  
 His Gly Ser Tyr Leu Met Val Asn Thr Ser Gln His Ala Pro Gly Gln  
 115 120 125  
 Arg Ala His Val Ile Phe Gln Ser Leu Ser Glu Asn Asp Thr His Cys  
 130 135 140  
 Val Gln Phe Ser Tyr Phe Leu Tyr Ser Arg Asp Gly His Ser Pro Gly  
 145 150 155 160  
 Thr Leu Gly Val Tyr Val Arg Val Asn Gly Gly Pro Leu Gly Ser Ala  
 165 170 175  
 Val Trp Asn Met Thr Gly Ser His Gly Arg Gln Trp His Gln Ala Glu  
 180 185 190  
 Leu Ala Val Ser Thr Phe Trp Pro Asn Glu Tyr Gln Val Leu Phe Glu  
 195 200 205  
 Ala Leu Ile Ser Pro Asp Arg Arg Gly Tyr Met Gly Leu Asp Asp Ile  
 210 215 220  
 Leu Leu Leu Ser Tyr Pro Cys Ala Lys Ala Pro His Phe Ser Arg Leu  
 225 230 235 240  
 Gly Asp Val Glu Val Asn Ala Gly Gln Asn Ala Ser Phe Gln Cys Met  
 245 250 255  
 Ala Ala Gly Arg Ala Ala Glu Ala Glu Arg Phe Leu Leu Gln Arg Gln  
 260 265 270  
 Ser Gly Ala Leu Val Pro Ala Ala Gly Val Arg His Ile Ser His Arg  
 275 280 285  
 Arg Phe Leu Ala Thr Phe Pro Leu Ala Ala Val Ser Arg Ala Glu Gln  
 290 295 300  
 Asp Leu Tyr Arg Cys Val Ser Gln Ala Pro Arg Gly Arg Gly Thr Ser  
 305 310 315 320  
 Leu Asn Phe Ala Glu Phe Met Val Lys Glu Pro Pro Thr Pro Ile Ala  
 325 330 335  
 Pro Pro Gln Leu Leu Arg Ala Gly Pro Thr Tyr Leu Ile Ile Gln Leu  
 340 345 350  
 Asn Thr Asn Ser Ile Ile Gly Asp Gly Pro Ile Val Arg Lys Glu Ile  
 355 360 365  
 Glu Tyr Arg Met Ala Arg Gly Pro Trp Ala Glu Val His Ala Val Ser  
 370 375 380

Leu Gln Thr Tyr Lys Leu Trp His Leu Asp Pro Asp Thr Glu Tyr Glu  
 385 390 395 400  
 Ile Ser Val Leu Leu Thr Arg Pro Gly Asp Gly Gly Thr Gly Arg Pro  
 405 410 415  
 Gly Pro Pro Leu Ile Ser Arg Thr Lys Cys Ala Glu Pro Met Arg Ala  
 420 425 430  
 Pro Lys Gly Leu Ala Phe Ala Glu Ile Gln Ala Arg Gln Leu Thr Leu  
 435 440 445  
 Gln Trp Glu Pro Leu Gly Tyr Asn Val Thr Arg Cys His Thr Tyr Thr  
 450 455 460  
 Val Ser Leu Cys Tyr His Tyr Thr Leu Gly Ser Ser His Asn Gln Thr  
 465 470 475 480  
 Ile Arg Glu Cys Val Lys Thr Glu Gln Gly Val Ser Arg Tyr Thr Met  
 485 490 495  
 Lys Asn Leu Leu Pro Tyr Arg Asn Val His Val Arg Leu Val Leu Thr  
 500 505 510  
 Asn Pro Glu Gly Arg Lys Glu Gly Lys Glu Val Thr Phe Gln Thr Asp  
 515 520 525  
 Glu Asp Val Pro Ser Gly Ile Ala Ala Glu Ser Leu Thr Phe Thr Pro  
 530 535 540  
 Leu Glu Asp Met Ile Phe Leu Lys Trp Glu Glu Pro Gln Glu Pro Asn  
 545 550 555 560  
 Gly Leu Ile Thr Gln Tyr Glu Ile Ser Tyr Gln Ser Ile Glu Ser Ser  
 565 570 575  
 Asp Pro Ala Val Asn Val Pro Gly Pro Arg Arg Thr Ile Ser Lys Leu  
 580 585 590  
 Arg Asn Glu Thr Tyr His Val Phe Ser Asn Leu His Pro Gly Thr Thr  
 595 600 605  
 Tyr Leu Phe Ser Val Arg Ala Arg Thr Gly Lys Gly Phe Gly Gln Ala  
 610 615 620  
 Ala Leu Thr Glu Ile Thr Thr Asn Ile Ser Ala Pro Ser Phe Asp Tyr  
 625 630 635 640  
 Ala Asp Met Pro Ser Pro Leu Gly Glu Ser Glu Asn Thr Ile Thr Val  
 645 650 655  
 Leu Leu Arg Pro Ala Gln Gly Arg Gly Ala Pro Ile Ser Val Tyr Gln  
 660 665 670  
 Val Ile Val Glu Glu Glu Gln Gly Ser Arg Arg Leu Arg Arg Glu Pro  
 675 680 685  
 Gly Gly Gln Asp Cys Phe Pro Val Pro Leu Thr Phe Glu Ala Ala Leu  
 690 695 700  
 Ala Arg Gly Leu Val Asp Tyr Phe Gly Ala Glu Leu Ala Ala Ser Ser  
 705 710 715 720  
 Leu Pro Glu Ala Met Pro Phe Thr Val Gly Asp Asn Lys Thr Tyr Arg  
 725 730 735  
 Gly Phe Trp Asn Pro Pro Leu Glu Pro Arg Lys Ala Tyr Leu Ile Tyr  
 740 745 750  
 Phe Gln Ala Ala Ser His Leu Lys Gly Glu Thr Arg Leu Asn Cys Ile  
 755 760 765  
 Arg Ile Ala Arg Lys Ala Ala Cys Lys Glu Ser Lys Arg Pro Leu Glu  
 770 775 780  
 Val Ser Gln Arg Ser Glu Glu Met Gly Leu Ile Leu Gly Ile Cys Ala  
 785 790 795 800  
 Gly Gly Leu Ala Val Leu Ile Leu Leu Glu Gly Ala Ile Ile Val Ile  
 805 810 815  
 Ile Arg Lys Gly Arg Asp His Tyr Ala Tyr Ser Tyr Tyr Pro Lys Pro  
 820 825 830  
 Val Asn Met Thr Lys Ala Thr Val Asn Tyr Arg Gln Glu Lys Thr His  
 835 840 845  
 Met Met Ser Ala Val Asp Arg Ser Phe Thr Asp Gln Ser Thr Leu Gln  
 850 855 860  
 Glu Asp Glu Arg Leu Gly Leu Ser Phe Met Asp Thr His Gly Tyr Ser  
 865 870 875 880  
 Thr Arg Gly Asp Gln Arg Ser Gly Gly Val Thr Glu Ala Ser Ser Leu  
 885 890 895

Leu Gly Gly Ser Pro Arg Arg Pro Cys Gly Arg Lys Gly Ser Pro Tyr  
 900 905 910  
 His Thr Gly Gln Leu His Pro Ala Val Arg Val Ala Asp Leu Leu Gln  
 915 920 925  
 His Ile Asn Gln Met Lys Thr Ala Glu Gly Tyr Gly Phe Lys Gln Glu  
 930 935 940  
 Tyr Glu Ser Phe Phe Glu Gly Trp Asp Ala Thr Lys Lys Lys Asp Lys  
 945 950 955 960  
 Val Lys Gly Ser Arg Gln Glu Pro Met Pro Ala Tyr Asp Arg His Arg  
 965 970 975  
 Val Lys Leu His Pro Met Leu Gly Asp Pro Asn Ala Asp Tyr Ile Asn  
 980 985 990  
 Ala Asn Tyr Ile Asp Ile Arg Ile Asn Arg Glu Gly Tyr His Arg Ser  
 995 1000 1005  
 Asn His Phe Ile Ala Thr Gln Gly Pro Lys Pro Glu Met Val Tyr Asp  
 1010 1015 1020  
 Phe Trp Arg Met Val Trp Gln Glu His Cys Ser Ser Ile Val Met Ile  
 1025 1030 1035 1040  
 Thr Lys Leu Val Glu Val Gly Arg Val Lys Cys Ser Arg Tyr Trp Pro  
 1045 1050 1055  
 Glu Asp Ser Asp Thr Tyr Gly Asp Ile Lys Ile Met Leu Val Lys Thr  
 1060 1065 1070  
 Glu Thr Leu Ala Glu Tyr Val Val Arg Thr Phe Ala Leu Glu Arg Arg  
 1075 1080 1085  
 Gly Tyr Ser Ala Arg His Glu Val Arg Gln Phe His Phe Thr Ala Trp  
 1090 1095 1100  
 Pro Glu His Gly Val Pro Tyr His Ala Thr Gly Leu Leu Ala Phe Ile  
 1105 1110 1115 1120  
 Arg Arg Val Lys Ala Ser Thr Pro Pro Asp Ala Gly Pro Ile Val Ile  
 1125 1130 1135  
 His Cys Ser Ala Gly Thr Gly Arg Thr Gly Cys Tyr Ile Val Leu Asp  
 1140 1145 1150  
 Val Met Leu Asp Met Ala Glu Cys Glu Gly Val Val Asp Ile Tyr Asn  
 1155 1160 1165  
 Cys Val Lys Thr Leu Cys Ser Arg Arg Val Asn Met Ile Gln Thr Glu  
 1170 1175 1180  
 Glu Gln Tyr Ile Phe Ile His Asp Ala Ile Leu Glu Ala Cys Leu Cys  
 1185 1190 1195 1200  
 Gly Glu Thr Thr Ile Pro Val Ser Glu Phe Lys Ala Thr Tyr Lys Glu  
 1205 1210 1215  
 Met Ile Arg Ile Asp Pro Gln Ser Asn Ser Ser Gln Leu Arg Glu Glu  
 1220 1225 1230  
 Phe Gln Thr Leu Asn Ser Val Thr Pro Pro Leu Asp Val Glu Glu Cys  
 1235 1240 1245  
 Ser Ile Ala Leu Leu Pro Arg Asn Arg Asp Lys Asn Arg Ser Met Asp  
 1250 1255 1260  
 Val Leu Pro Pro Asp Arg Cys Leu Pro Phe Leu Ile Ser Thr Asp Gly  
 1265 1270 1275 1280  
 Asp Ser Asn Asn Tyr Ile Asn Ala Ala Leu Thr Asp Ser Tyr Thr Arg  
 1285 1290 1295  
 Ser Ala Ala Phe Ile Val Thr Leu His Pro Leu Gln Ser Thr Thr Pro  
 1300 1305 1310  
 Asp Phe Trp Gly Leu Val Tyr Asp Tyr Gly Cys Thr Ser Ile Val Met  
 1315 1320 1325  
 Leu Asn Gln Leu Asn Gln Ser Asn Ser Ala Trp Pro Cys Leu Gln Tyr  
 1330 1335 1340  
 Trp Pro Glu Pro Gly Arg Gln Gln Tyr Gly Leu Met Glu Val Glu Phe  
 1345 1350 1355 1360  
 Met Ser Gly Thr Ala Asp Glu Asp Leu Val Ala Arg Val Phe Arg Val  
 1365 1370 1375  
 Gln Asn Ile Ser Arg Leu Gln Glu Gly His Leu Leu Val Arg His Phe  
 1380 1385 1390  
 Gln Phe Leu Arg Trp Ser Ala Tyr Arg Asp Thr Pro Asp Ser Lys Lys  
 1395 1400 1405

Ala Phe Leu His Leu Leu Ala Glu Gly Asp Lys Trp Gln Ala Glu Ser  
 1410 1415 1420  
 Gly Asp Gly Arg Thr Ile Val His Cys Leu Asn Gly Gly Gly Arg Ser  
 1425 1430 1435 1440  
 Gly Thr Phe Cys Ala Cys Ala Thr Val Leu Glu Met Ile Arg Cys His  
 1445 1450 1455  
 Asn Leu Val Asp Val Phe Phe Ala Ala Lys Thr Leu Arg Asn Tyr Lys  
 1460 1465 1470  
 Pro Asn Met Val Glu Thr Met Asp Gln Tyr His Phe Cys Tyr Asp Val  
 1475 1480 1485  
 Ala Leu Glu Tyr Leu Glu Gly Leu Glu Ser Arg  
 1490 1495 1499

<210> 1284  
 <211> 430  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1284  
 Thr Lys Pro Arg Lys Arg Arg His Gln Pro Ala Ser Gln Arg Gln Arg  
 1 5 10 15  
 Pro Trp Ser Ser Asp Ser Thr Gly Asp Leu Leu Ala Arg Gly Lys Gly  
 20 25 30  
 Arg Lys Glu Glu Asn Lys Gly Ser Asp Arg Val Ser Leu Ala Pro Pro  
 35 40 45  
 Ser Leu Arg Arg Pro Met Met Cys Gln Ser Glu Ala Arg Gln Gly Pro  
 50 55 60  
 Glu Leu Arg Ala Ala Lys Trp Leu His Phe Pro Gln Leu Ala Leu Arg  
 65 70 75 80  
 Arg Arg Leu Gly Gln Leu Ser Cys Met Ser Arg Pro Ala Leu Lys Leu  
 85 90 95  
 Arg Ser Trp Pro Leu Thr Val Leu Tyr Tyr Leu Leu Pro Phe Gly Ala  
 100 105 110  
 Leu Arg Pro Leu Ser Arg Val Gly Trp Arg Pro Val Ser Arg Val Ala  
 115 120 125  
 Leu Tyr Lys Ser Val Pro Thr Arg Leu Leu Ser Arg Ala Trp Gly Arg  
 130 135 140  
 Leu Asn Gln Val Glu Leu Pro His Trp Leu Arg Arg Pro Val Tyr Ser  
 145 150 155 160  
 Leu Tyr Ile Trp Thr Phe Gly Val Asn Met Lys Glu Ala Ala Val Glu  
 165 170 175  
 Asp Leu His His Tyr Arg Asn Leu Ser Glu Phe Phe Arg Arg Lys Leu  
 180 185 190  
 Lys Pro Gln Ala Arg Pro Val Cys Gly Leu His Ser Val Ile Ser Pro  
 195 200 205  
 Ser Asp Gly Arg Ile Leu Asn Phe Gly Gln Val Lys Asn Cys Glu Val  
 210 215 220  
 Glu Gln Val Lys Gly Val Thr Tyr Ser Leu Glu Ser Phe Leu Gly Pro  
 225 230 235 240  
 Arg Met Cys Thr Glu Asp Leu Pro Phe Pro Pro Ala Ala Ser Cys Asp  
 245 250 255  
 Ser Phe Lys Asn Gln Leu Val Thr Arg Glu Gly Asn Glu Leu Tyr His  
 260 265 270  
 Cys Val Ile Tyr Leu Ala Pro Gly Asp Tyr His Cys Phe His Ser Pro  
 275 280 285  
 Thr Asp Trp Thr Val Ser His Arg Arg His Phe Pro Gly Ser Leu Met  
 290 295 300  
 Ser Val Asn Pro Gly Met Ala Arg Trp Ile Lys Glu Leu Phe Cys His  
 305 310 315 320



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Asn Glu Arg Val Val Leu Thr Gly Asp Trp Lys His Gly Phe Phe Ser
          325          330          335
Leu Thr Ala Val Gly Ala Thr Asn Trp Gly Ser Ile Arg Ile Tyr Phe
          340          345          350
Asp Arg Asp Leu His Thr Asn Ser Pro Arg His Ser Lys Gly Ser Tyr
          355          360          365
Asn Asp Phe Ser Phe Val Thr His Thr Asn Arg Glu Gly Val Pro Met
          370          375          380
Ala Leu Arg Gly Glu His Leu Gly Gln Ser Phe Asn Leu Gly Ser Thr
385          390          395          400
Ile Val Leu Ile Phe Glu Ala Pro Lys Asp Phe Asn Phe Gln Leu Lys
          405          410          415
Thr Gly Gln Lys Ile Arg Phe Gly Glu Ala Leu Gly Ser Leu
          420          425          430

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&lt;210&gt; 1285

&lt;211&gt; 957

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1285

```

Ala Glu Leu Gly Leu Phe Gly Ser Leu Arg Phe Ser Ser Leu Leu His
 1          5          10          15
Phe Pro Pro Arg Pro Arg Ser Pro Ala Ser Ala Cys Gly Pro Gly Glu
          20          25          30
Gly Arg Met Glu Arg Gly Leu Pro Leu Leu Cys Ala Val Leu Ala Leu
          35          40          45
Val Leu Ala Pro Ala Gly Ala Phe Arg Asn Asp Lys Cys Gly Asp Thr
          50          55          60
Ile Lys Ile Glu Ser Pro Gly Tyr Leu Thr Ser Pro Gly Tyr Pro His
          65          70          75          80
Ser Tyr His Pro Ser Glu Lys Cys Glu Trp Leu Ile Gln Ala Pro Asp
          85          90          95
Pro Tyr Gln Arg Ile Met Ile Asn Phe Asn Pro His Phe Asp Leu Glu
          100          105          110
Asp Arg Asp Cys Lys Tyr Asp Tyr Val Glu Val Phe Asp Gly Glu Asn
          115          120          125
Glu Asn Gly His Phe Arg Gly Lys Phe Cys Gly Lys Ile Ala Pro Pro
          130          135          140
Pro Val Val Ser Ser Gly Pro Phe Leu Phe Ile Lys Phe Val Ser Asp
145          150          155          160
Tyr Glu Thr His Gly Ala Gly Phe Ser Ile Arg Tyr Glu Ile Phe Lys
          165          170          175
Arg Gly Pro Glu Cys Ser Gln Asn Tyr Thr Thr Pro Ser Gly Val Ile
          180          185          190
Lys Ser Pro Gly Phe Pro Glu Lys Tyr Pro Asn Ser Leu Glu Cys Thr
          195          200          205
Tyr Ile Val Phe Ala Pro Lys Met Ser Glu Ile Ile Leu Asp Phe Glu
          210          215          220
Ser Phe Asp Leu Glu Pro Asp Ser Asn Pro Pro Gly Gly Met Phe Cys
225          230          235          240
Arg Tyr Asp Arg Leu Glu Ile Trp Asp Gly Phe Pro Asp Val Gly Pro
          245          250          255
His Ile Gly Arg Tyr Cys Gly Gln Lys Thr Pro Gly Arg Ile Arg Ser
          260          265          270
Ser Ser Gly Ile Leu Ser Met Val Phe Tyr Thr Asp Ser Ala Ile Ala
          275          280          285
Lys Glu Gly Phe Ser Ala Asn Tyr Ser Val Leu Gln Ser Ser Val Ser
          290          295          300

```

Glu Asp Phe Lys Cys Met Glu Ala Leu Gly Met Glu Ser Gly Glu Ile  
 305 310 315 320  
 His Ser Asp Gln Ile Thr Ala Ser Ser Gln Tyr Ser Thr Asn Trp Ser  
 325 330 335  
 Ala Glu Arg Ser Arg Leu Asn Tyr Pro Glu Asn Gly Trp Thr Pro Gly  
 340 345 350  
 Glu Asp Ser Tyr Arg Glu Trp Ile Gln Val Asp Leu Gly Leu Leu Arg  
 355 360 365  
 Phe Val Thr Ala Val Gly Thr Gln Gly Ala Ile Ser Lys Glu Thr Lys  
 370 375 380  
 Lys Lys Tyr Tyr Val Lys Thr Tyr Lys Ile Asp Val Ser Ser Asn Gly  
 385 390 395 400  
 Glu Asp Trp Ile Thr Ile Lys Glu Gly Asn Lys Pro Val Leu Phe Gln  
 405 410 415  
 Gly Asn Thr Asn Pro Thr Asp Val Val Val Ala Val Phe Pro Lys Pro  
 420 425 430  
 Leu Ile Thr Arg Phe Val Arg Ile Lys Pro Ala Thr Trp Glu Thr Gly  
 435 440 445  
 Ile Ser Met Arg Phe Glu Val Tyr Gly Cys Lys Ile Thr Asp Tyr Pro  
 450 455 460  
 Cys Ser Gly Met Leu Gly Met Val Ser Gly Leu Ile Ser Asp Ser Gln  
 465 470 475 480  
 Ile Thr Ser Ser Asn Gln Gly Asp Arg Asn Trp Met Pro Glu Asn Ile  
 485 490 495  
 Arg Leu Val Thr Ser Arg Ser Gly Trp Ala Leu Pro Pro Ala Pro His  
 500 505 510  
 Ser Tyr Ile Asn Glu Trp Leu Gln Ile Asp Leu Gly Glu Glu Lys Ile  
 515 520 525  
 Val Arg Gly Ile Ile Ile Gln Gly Gly Lys His Arg Glu Asn Lys Val  
 530 535 540  
 Phe Met Arg Lys Phe Lys Ile Gly Tyr Ser Asn Asn Gly Ser Asp Trp  
 545 550 555 560  
 Lys Met Ile Met Asp Asp Ser Lys Arg Lys Ala Lys Ser Phe Glu Gly  
 565 570 575  
 Asn Asn Asn Tyr Asp Thr Pro Glu Leu Arg Thr Phe Pro Ala Leu Ser  
 580 585 590  
 Thr Arg Phe Ile Arg Ile Tyr Pro Glu Arg Ala Thr His Gly Gly Leu  
 595 600 605  
 Gly Leu Arg Met Glu Leu Leu Gly Cys Glu Val Glu Ala Pro Thr Ala  
 610 615 620  
 Gly Pro Thr Thr Pro Asn Gly Asn Leu Val Asp Glu Cys Asp Asp Asp  
 625 630 635 640  
 Gln Ala Asn Cys His Ser Gly Thr Gly Asp Asp Phe Gln Leu Thr Gly  
 645 650 655  
 Gly Thr Thr Val Leu Ala Thr Glu Lys Pro Thr Val Ile Asp Ser Thr  
 660 665 670  
 Ile Gln Ser Glu Phe Pro Thr Tyr Gly Phe Asn Cys Glu Phe Gly Trp  
 675 680 685  
 Gly Ser His Lys Thr Phe Cys His Trp Glu His Asp Asn His Val Gln  
 690 695 700  
 Leu Lys Trp Ser Val Leu Thr Ser Lys Thr Gly Pro Ile Gln Asp His  
 705 710 715 720  
 Thr Gly Asp Gly Asn Phe Ile Tyr Ser Gln Ala Asp Glu Asn Gln Lys  
 725 730 735  
 Gly Lys Val Ala Arg Leu Val Ser Pro Val Val Tyr Ser Gln Asn Ser  
 740 745 750  
 Ala His Cys Met Thr Phe Trp Tyr His Met Ser Gly Ser His Val Gly  
 755 760 765  
 Thr Leu Arg Val Lys Leu Arg Tyr Gln Lys Pro Glu Glu Tyr Asp Gln  
 770 775 780  
 Leu Val Trp Met Ala Ile Gly His Gln Gly Asp His Trp Lys Glu Gly  
 785 790 795 800  
 Arg Val Leu Leu His Lys Ser Leu Lys Leu Tyr Gln Val Ile Phe Glu  
 805 810 815

Gly Glu Ile Gly Lys Gly Asn Leu Gly Gly Ile Ala Val Asp Asp Ile  
                   820                  825                  830  
 Ser Ile Asn Asn His Ile Ser Gln Glu Asp Cys Ala Lys Pro Ala Asp  
                   835                  840                  845  
 Leu Asp Lys Lys Asn Pro Glu Ile Lys Ile Asp Glu Thr Gly Ser Thr  
                   850                  855                  860  
 Pro Gly Tyr Glu Gly Glu Gly Glu Gly Asp Lys Asn Ile Ser Arg Lys  
                   865                  870                  875                  880  
 Pro Gly Asn Val Leu Lys Thr Leu Glu Pro Ile Leu Ile Thr Ile Ile  
                   885                  890                  895  
 Ala Met Ser Ala Leu Gly Val Leu Leu Gly Ala Val Cys Gly Val Val  
                   900                  905                  910  
 Leu Tyr Cys Ala Cys Trp His Asn Gly Met Ser Glu Arg Asn Leu Ser  
                   915                  920                  925  
 Ala Leu Glu Asn Tyr Asn Phe Glu Leu Val Asp Gly Val Lys Leu Lys  
                   930                  935                  940  
 Lys Asp Lys Leu Asn Thr Gln Ser Thr Tyr Ser Glu Ala  
                   945                  950                  955                  957

&lt;210&gt; 1286

&lt;211&gt; 173

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(173)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1286

His Glu Gly Ser Ala Leu Thr Trp Ala Ser His Tyr Gln Glu Arg Leu  
   1                  5                  10                  15  
 Asn Ser Glu Gln Ser Cys Leu Asn Glu Trp Thr Ala Met Ala Asp Leu  
                   20                  25                  30  
 Glu Ser Leu Arg Pro Pro Ser Ala Glu Pro Gly Gly Ser Val Cys Gly  
                   35                  40                  45  
 Gly Glu Gly Leu Gly Gly Gly Glu Gly Arg Ile Met Gln Trp Gly Ala  
                   50                  55                  60  
 Trp Trp Arg Gly Glu Arg Ala Pro Xaa Leu Arg Gly Ser Ala Pro Arg  
                   65                  70                  75                  80  
 Ser Ser Glu Gln Glu Gln Met Glu Gln Ala Ile Arg Ala Glu Leu Trp  
                   85                  90                  95  
 Lys Val Leu Asp Val Ser Asp Leu Glu Ser Val Thr Ser Lys Glu Ile  
                   100                  105                  110  
 Arg Gln Ala Leu Glu Leu Arg Leu Gly Leu Pro Leu Gln Pro Val Pro  
                   115                  120                  125  
 Xaa Leu His Arg Gln Pro Asp Ala Ala Ala Gly Gly Thr Ala Gly Pro  
                   130                  135                  140  
 Ser Leu Pro His Leu Pro Pro Pro Leu Pro Gly Leu Arg Val Glu Arg  
                   145                  150                  155                  160  
 Ser Lys Pro Gly Gly Ala Ala Glu Glu Gln Val Gly Leu  
                   165                  170                  173

&lt;210&gt; 1287

&lt;211&gt; 181

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

<400> 1287  
 Met Ala Ala Leu Asp Leu Arg Ala Glu Leu Asp Ser Leu Val Leu Gln  
 1 5 10 15  
 Leu Leu Gly Asp Leu Glu Glu Leu Glu Gly Lys Arg Thr Val Leu Asn  
 20 25 30  
 Ala Arg Val Glu Glu Gly Trp Leu Ser Leu Ala Lys Ala Arg Tyr Ala  
 35 40 45  
 Met Gly Ala Lys Ser Val Gly Pro Leu Gln Tyr Ala Ser His Met Glu  
 50 55 60  
 Pro Gln Val Cys Leu His Ala Ser Glu Ala Gln Glu Gly Leu Gln Lys  
 65 70 75 80  
 Phe Lys Val Val Arg Ala Gly Val His Ala Pro Glu Glu Val Gly Pro  
 85 90 95  
 Arg Glu Ala Gly Leu Arg Arg Arg Lys Gly Pro Thr Lys Thr Pro Glu  
 100 105 110  
 Pro Glu Ser Ser Glu Ala Pro Gln Asp Pro Leu Asn Trp Phe Gly Ile  
 115 120 125  
 Leu Val Pro His Ser Leu Arg Gln Ala Gln Ala Ser Phe Arg Asp Gly  
 130 135 140  
 Leu Gln Leu Ala Ala Asp Ile Ala Ser Leu Gln Asn Arg Ile Asp Trp  
 145 150 155 160  
 Gly Arg Ser Gln Leu Arg Gly Leu Gln Glu Lys Leu Lys Gln Leu Glu  
 165 170 175  
 Pro Gly Ala Ala \*  
 180

<210> 1288

<211> 216

<212> Amino acid

<213> Homo sapiens

<400> 1288  
 His Ser Asp Val Gly Ala Ala Thr Ala Val Leu Pro Leu Leu Thr Ala  
 1 5 10 15  
 Val Leu Gly Val Thr Val Val Thr Arg Arg Asp Thr Glu Gly Pro Gly  
 20 25 30  
 Arg Ala Ala Leu Val His Leu Thr Gly Ser Pro Arg Gln Lys Val Gly  
 35 40 45  
 Thr Ser Gly Arg Glu Gly Leu Pro Gly Leu Gly Ala Ser Cys Ala Glu  
 50 55 60  
 Ser Glu Leu Glu Arg Glu Thr Gln Glu Pro Arg Ser Arg Gly Arg Cys  
 65 70 75 80  
 Ile Phe Gly Ala Ala Arg Trp Arg Gln Val Pro Leu Ala Ser Pro Gln  
 85 90 95  
 Arg Pro Phe Leu Leu Ser Pro Gly Pro Arg Leu His Arg Met Gly Leu  
 100 105 110  
 Pro Val Ser Trp Ala Pro Pro Ala Leu Trp Val Leu Gly Cys Cys Ala  
 115 120 125  
 Leu Leu Leu Ser Leu Trp Ala Leu Cys Thr Ala Cys Arg Arg Pro Glu  
 130 135 140  
 Asp Ala Val Ala Pro Arg Lys Arg Ala Arg Arg Gln Arg Ala Arg Leu  
 145 150 155 160  
 Gln Gly Ser Ala Thr Ala Ala Glu Ala Val Ser Ala Lys Leu Ser Arg  
 165 170 175  
 Gly Pro Gly Trp Gly Pro Gln Gly Thr Asp Gln Pro Ser Ser Pro Pro

```

      180      185      190
Val Pro Thr Glu Ala Asp Pro Pro Leu Leu Pro Gln Gln Val Gly His
      195      200      205
Gln Thr Ala Arg Ala Ala Pro Gly
      210      215 216

```

```

<210> 1289
<211> 148
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(148)
<223> X = any amino acid or stop code

```

```

<400> 1289
Leu Thr Gly Pro Gly Gln Arg Leu Ala Gly Thr Thr Glu Gly Pro Arg
 1          5          10          15
Arg Cys Arg Gly Ser Ser Gln Ala Pro Thr Pro Thr Trp Lys Leu Val
      20      25      30
Asp Thr Arg Leu Cys Ala Ala Ala Pro Trp Leu Ala Ser Arg Ala Pro
      35      40      45
Gly His Tyr Ser Gln Met Leu Leu Val Asn Xaa Pro Cys Arg Lys Asp
      50      55      60
Trp Leu Val Ser Lys Trp Met Arg Thr Pro Val Cys Gly Gln Ser Pro
      65      70      75      80
Ala Met Thr Asp Arg Pro Arg Ser Glu Ala Gly Arg Asp His Arg Arg
      85      90      95
Ala Lys Ala Leu Pro Gly Leu Ile Pro Gly Ser Asn Pro Asn Leu Glu
      100      105      110
Ala Cys Gly His Gln Ala Leu Cys Ser Ser Ser Val Ala Ser Val Gln
      115      120      125
Gly Pro Trp Pro Leu Leu Pro Asn Ala Ser Ser Pro Pro Thr Pro Gly
      130      135      140
Gln Pro Gln Pro
145          148

```

```

<210> 1290
<211> 170
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(170)
<223> X = any amino acid or stop code

```

```

<400> 1290
Lys His Arg Leu Cys Ser Leu Glu Gln Leu Met Thr Leu Ile Ser Ala
 1          5          10          15
Ala Arg Glu Tyr Glu Ile Glu Phe Ile Tyr Ala Ile Ser Pro Gly Leu
      20      25      30
Asp Ile Thr Phe Ser Asn Pro Lys Glu Val Ser Thr Leu Lys Arg Lys

```

```

      35      40      45
Leu Asp Gln Val Ser Gln Phe Gly Cys Arg Ser Phe Ala Leu Leu Phe
  50      55      60
Asp Asp Ile Asp His Asn Met Cys Ala Ala Asp Lys Glu Val Phe Ser
  65      70      75      80
Ser Phe Ala His Ala Gln Val Ser Ile Thr Asn Glu Ile Tyr Gln Tyr
      85      90      95
Leu Gly Glu Pro Glu Thr Phe Leu Phe Cys Pro Thr Glu Tyr Cys Ile
      100      105      110
Xaa Trp Leu Tyr Ile Xaa Leu Val Phe Leu Glu Tyr Ile Thr Tyr Lys
      115      120      125
Gly Pro Trp Ala Pro Phe Ser Leu His Phe Pro Pro Pro Leu Val Cys
      130      135      140
Lys Ser Arg Asn Leu Phe Leu Glu Asp Ile Phe Gln Asp Pro Lys Leu
      145      150      155      160
Glu Lys Phe Xaa Glu Leu Ile Asn Asp Asn
      165      170

```

<210> 1291  
 <211> 98  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 1291
Thr Ser Ala Leu Thr Gln Gly Leu Glu Arg Ile Pro Asp Gln Leu Gly
  1      5      10      15
Tyr Leu Val Leu Ser Glu Gly Ala Val Leu Ala Ser Ser Gly Asp Leu
      20      25      30
Glu Asn Asp Glu Gln Ala Ala Ser Ala Ile Ser Glu Leu Val Ser Thr
      35      40      45
Ala Cys Gly Phe Arg Leu His Arg Gly Met Asn Val Pro Phe Lys Arg
      50      55      60
Leu Ser Val Val Phe Gly Glu His Thr Leu Leu Val Thr Val Ser Gly
      65      70      75      80
Gln Arg Val Phe Val Val Lys Arg Gln Asn Arg Gly Arg Glu Pro Ile
      85      90      95
Asp Val
  98

```

<210> 1292  
 <211> 142  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 1292
Ala Lys Arg Ala Glu Arg Thr Ser Arg Leu Gln Gly Leu Gln His Pro
  1      5      10      15
Ser Pro Pro Tyr Pro Pro Ala Thr Leu Gly Val Thr Pro Gly Gln Asp
      20      25      30
Arg Thr Leu Gln Leu Gln His Gln Cys Pro Ala Gly Arg Lys Ser Arg
      35      40      45
Lys Lys Lys Ser Lys Ala Thr Gln Leu Ser Pro Glu Asp Arg Val Glu
      50      55      60
Asp Ala Leu Pro Pro Ser Lys Ala Pro Ser Arg Thr Arg Arg Ala Lys

```

```

65              70              75              80
Arg Asp Leu Pro Lys Arg Thr Ala Thr Gln Arg Pro Glu Gly Thr Ser
              85              90              95
Leu Gln Gln Asp Pro Glu Ala Pro Thr Val Pro Lys Lys Gly Arg Arg
              100              105              110
Lys Gly Arg Gln Ala Ala Ser Gly His Cys Arg Pro Arg Lys Val Lys
              115              120              125
Ala Asp Ile Pro Ser Leu Glu Pro Glu Gly Thr Ser Ala Ser
              130              135              140              142

```

&lt;210&gt; 1293

&lt;211&gt; 89

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(89)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1293

```

Arg Lys Ser Ser Trp Leu Gly Ala Val Ala His Ala Cys Asn Pro Ser
 1              5              10              15
Ser Leu Gly Gly Pro Gly Arg Gln Ile Thr Arg Ser Gly Val Arg Asp
              20              25              30
Gln Pro Gly Gln Tyr Gly Glu Thr Pro Ser Leu Leu Lys Ile Gln Thr
              35              40              45
Leu Ala Gly Arg Gly Gly Ala Cys Leu Xaa Ser His Ile Leu Arg Arg
              50              55              60
Leu Arg Gln Lys Asn Arg Leu Asn Leu Gly Gly Arg Gly Cys Ser Glu
65              70              75              80
Leu Arg Ser Arg His Cys Ala Pro Ala
              85              89

```

&lt;210&gt; 1294

&lt;211&gt; 80

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1294

```

Ala Trp Asn Ser Ala Arg Gly Ala Val Ser Pro Leu Trp Val Pro Gly
 1              5              10              15
Cys Phe Leu Thr Leu Ser Val Thr Trp Ile Gly Ala Ala Pro Leu Ile
              20              25              30
Leu Ser Arg Ile Val Gly Gly Trp Glu Cys Glu Lys His Ser Gln Pro
              35              40              45
Trp Gln Val Leu Val Ala Ser Arg Gly Arg Ala Val Cys Gly Gly Val
              50              55              60
Leu Val His Pro Gln Trp Val Leu Thr Ala Ala His Cys Ile Arg Lys
65              70              75              80

```

<210> 1295  
 <211> 281  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1295  
 Ala Glu Met Ala Asp Asp Leu Gly Asp Glu Trp Trp Glu Asn Gln Pro  
 1 5 10 15  
 Thr Gly Ala Gly Ser Ser Pro Glu Ala Ser Asp Gly Glu Gly Glu Gly  
 20 25 30  
 Asp Thr Glu Val Met Gln Gln Glu Thr Val Pro Val Pro Val Pro Ser  
 35 40 45  
 Glu Lys Thr Lys Gln Pro Lys Glu Cys Phe Leu Ile Gln Pro Lys Glu  
 50 55 60  
 Arg Lys Glu Asn Thr Thr Lys Thr Arg Lys Arg Arg Lys Lys Lys Ile  
 65 70 75 80  
 Thr Asp Val Leu Ala Lys Ser Glu Pro Lys Pro Gly Leu Pro Glu Asp  
 85 90 95  
 Leu Gln Lys Leu Met Lys Asp Tyr Tyr Ser Ser Arg Arg Leu Val Ile  
 100 105 110  
 Glu Leu Glu Glu Leu Asn Leu Pro Asp Ser Cys Phe Leu Lys Ala Asn  
 115 120 125  
 Asp Leu Thr His Ser Leu Ser Ser Tyr Leu Lys Glu Ile Cys Pro Lys  
 130 135 140  
 Trp Val Lys Leu Arg Lys Asn His Ser Glu Lys Lys Ser Val Leu Met  
 145 150 155 160  
 Leu Ile Ile Cys Ser Ser Ala Val Arg Ala Leu Glu Leu Ile Arg Ser  
 165 170 175  
 Met Thr Ala Phe Arg Gly Asp Gly Lys Val Ile Lys Leu Phe Ala Lys  
 180 185 190  
 His Ile Lys Val Gln Ala Gln Val Lys Leu Leu Glu Lys Arg Val Val  
 195 200 205  
 His Leu Gly Val Gly Thr Pro Gly Arg Ile Lys Glu Leu Val Lys Gln  
 210 215 220  
 Gly Gly Leu Asn Leu Ser Pro Leu Lys Phe Leu Val Phe Asp Trp Asn  
 225 230 235 240  
 Trp Arg Asp Gln Lys Leu Arg Arg Met Met Asp Ile Pro Glu Ile Arg  
 245 250 255  
 Lys Glu Val Phe Glu Leu Leu Glu Met Gly Val Leu Ser Leu Cys Lys  
 260 265 270  
 Ser Glu Ser Leu Lys Leu Gly Leu Phe  
 275 280 281

<210> 1296  
 <211> 213  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1296  
 Arg Pro Gly Thr Ala Ile Trp Val Val Glu Cys Glu His Gly Arg Pro  
 1 5 10 15  
 Ile Ala Glu Ser Glu Gly Gln Glu Gly Arg Gly His Ser Pro Pro Gly  
 20 25 30  
 Pro Cys Ser Val Ala Gly Phe Leu Arg Gly Arg Leu Gly Arg Asn Leu  
 35 40 45



Glu Ile Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala  
     50                    55                    60  
 Leu Cys Leu Thr Gly Leu Val Leu Ser Leu Tyr Ala Leu His Val Lys  
     65                    70                    75                    80  
 Ala Ala Arg Ala Arg Asp Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly  
                     85                    90                    95  
 Thr Ala Ile Ser Cys Ser Arg Val Phe Ser Ser Arg Trp Gly Arg Gly  
                     100                    105                    110  
 Phe Gly Leu Val Glu His Val Leu Gly Gln Asp Ser Ile Leu Asn Gln  
                     115                    120                    125  
 Ser Asn Ser Ile Phe Gly Cys Ile Phe Tyr Thr Leu Gln Leu Leu Leu  
     130                    135                    140  
 Gly Cys Leu Arg Thr Arg Trp Ala Ser Val Leu Met Leu Leu Ser Ser  
 145                    150                    155                    160  
 Leu Val Ser Leu Ala Gly Ser Val Tyr Leu Ala Trp Ile Leu Phe Phe  
                     165                    170                    175  
 Val Leu Tyr Asp Phe Cys Ile Val Cys Ile Thr Thr Tyr Ala Ile Asn  
                     180                    185                    190  
 Val Ser Leu Met Trp Leu Ser Phe Arg Lys Val Gln Glu Pro Gln Gly  
     195                    200                    205  
 Lys Ala Lys Arg His  
     210                    213

&lt;210&gt; 1297

&lt;211&gt; 353

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1297

Glu Ser Pro Ala Pro Pro Ala Phe Arg Pro Ala Met Ala Ala Val Ala  
     1                    5                    10                    15  
 Leu Met Pro Pro Pro Leu Leu Leu Leu Leu Leu Ala Ser Pro Pro  
                     20                    25                    30  
 Ala Ala Ser Ala Pro Ser Ala Arg Asp Pro Phe Ala Pro Gln Leu Gly  
     35                    40                    45  
 Asp Thr Gln Asn Cys Gln Leu Arg Cys Arg Asp Arg Asp Leu Gly Pro  
     50                    55                    60  
 Gln Pro Ser Gln Ala Gly Leu Glu Gly Ala Ser Glu Ser Pro Tyr Asp  
     65                    70                    75                    80  
 Arg Ala Val Leu Ile Ser Ala Cys Glu Arg Gly Cys Arg Leu Phe Ser  
                     85                    90                    95  
 Ile Cys Arg Phe Val Ala Arg Ser Ser Lys Pro Asn Ala Thr Gln Thr  
                     100                    105                    110  
 Glu Cys Glu Ala Ala Cys Val Glu Ala Tyr Val Lys Glu Ala Glu Gln  
                     115                    120                    125  
 Gln Ala Cys Ser His Gly Cys Trp Ser Gln Pro Ala Glu Pro Glu Pro  
     130                    135                    140  
 Glu Gln Lys Arg Lys Val Leu Glu Ala Pro Ser Gly Ala Leu Ser Leu  
 145                    150                    155                    160  
 Leu Asp Leu Phe Ser Thr Leu Cys Asn Asp Leu Val Asn Ser Ala Gln  
                     165                    170                    175  
 Gly Phe Val Ser Ser Thr Trp Thr Tyr Tyr Leu Gln Thr Asp Asn Gly  
                     180                    185                    190  
 Lys Val Val Val Phe Gln Thr Gln Pro Ile Val Glu Ser Leu Gly Phe  
     195                    200                    205  
 Gln Gly Gly Arg Leu Gln Arg Val Glu Val Thr Trp Arg Gly Ser His  
     210                    215                    220  
 Pro Glu Ala Leu Glu Val His Val Asp Pro Val Gly Pro Leu Asp Lys  
 225                    230                    235                    240

Val Arg Lys Ala Lys Ile Arg Val Lys Thr Ser Ser Lys Ala Lys Val  
                                   245                                  250                                  255  
 Glu Ser Glu Glu Pro Gln Asp Asn Asp Phe Leu Ser Cys Met Ser Arg  
                                   260                                  265                                  270  
 Arg Ser Gly Leu Pro Arg Trp Ile Leu Ala Cys Cys Leu Phe Leu Ser  
                                   275                                  280                                  285  
 Val Leu Val Met Leu Trp Leu Ser Cys Ser Thr Leu Val Thr Ala Pro  
                                   290                                  295                                  300  
 Gly Gln His Leu Lys Phe Gln Pro Leu Thr Leu Glu Gln His Lys Gly  
 305                                  310                                  315                                  320  
 Phe Met Met Glu Pro Asp Trp Pro Leu Tyr Pro Pro Pro Ser His Ala  
                                   325                                  330                                  335  
 Cys Glu Asp Ser Leu Pro Pro Tyr Lys Leu Lys Leu Asp Leu Thr Lys  
                                   340                                  345                                  350  
 Leu  
 353

<210> 1298  
 <211> 161  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1298  
 Phe Pro Glu Leu Gly Thr Ser Leu Ser Ala Met Arg Phe Leu Ala Ala  
   1                                  5                                  10                                  15  
 Thr Phe Leu Leu Leu Ala Leu Ser Thr Ala Ala Gln Ala Glu Pro Val  
                                   20                                  25                                  30  
 Gln Phe Lys Asp Cys Gly Ser Val Asp Gly Val Ile Lys Glu Val Asn  
                                   35                                  40                                  45  
 Val Ser Pro Cys Pro Thr Gln Pro Cys Gln Leu Ser Lys Gly Gln Ser  
                                   50                                  55                                  60  
 Tyr Ser Val Asn Val Thr Phe Thr Ser Asn Ile Gln Ser Lys Ser Ser  
                                   65                                  70                                  75                                  80  
 Lys Ala Val Val His Gly Ile Leu Met Gly Val Pro Val Pro Phe Pro  
                                   85                                  90                                  95  
 Ile Pro Glu Pro Asp Gly Cys Lys Ser Gly Ile Asn Cys Pro Ile Gln  
                                   100                                  105                                  110  
 Lys Asp Lys Thr Tyr Ser Tyr Leu Asn Lys Leu Pro Val Lys Ser Glu  
                                   115                                  120                                  125  
 Tyr Pro Ser Ile Lys Leu Val Val Glu Trp Gln Leu Gln Asp Asp Lys  
                                   130                                  135                                  140  
 Asn Gln Ser Leu Phe Cys Trp Glu Ile Pro Val Gln Ile Val Ser His  
 145                                  150                                  155                                  160  
 Leu  
 161

<210> 1299  
 <211> 128  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1299  
 Ala Pro Glu Thr Phe Arg Cys Val Trp Arg Leu Gln Gly Leu Thr Phe  
   1                                  5                                  10                                  15

```

Ile Ala Phe Thr Glu Leu Gln Ala Lys Val Ile Asp Thr Gln Gln Lys
      20              25              30
Val Lys Leu Ala Asp Ile Gln Ile Glu Gln Leu Asn Arg Thr Lys Lys
      35              40              45
His Ala His Leu Thr Asp Thr Glu Ile Met Thr Leu Val Asp Glu Thr
      50              55              60
Asn Met Tyr Glu Gly Val Gly Arg Met Phe Ile Leu Gln Ser Lys Glu
      65              70              75              80
Ala Ile His Ser Gln Leu Leu Glu Lys Gln Lys Ile Ala Glu Glu Lys
      85              90              95
Ile Lys Glu Leu Glu Gln Lys Lys Ser Tyr Leu Glu Arg Ser Val Lys
      100             105             110
Glu Ala Glu Asp Asn Ile Arg Glu Met Leu Met Ala Arg Arg Ala Gln
      115             120             125             128

```

&lt;210&gt; 1300

&lt;211&gt; 265

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(265)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1300

```

His Ser Leu Leu Gly Thr Arg Val Arg Asp Ala Ser Ser Lys Ile
  1              5              10              15
Gln Gly Glu Tyr Thr Leu Thr Leu Arg Lys Gly Gly Asn Asn Lys Leu
      20              25              30
Ser Arg Val Phe His Arg Asp Gly His Tyr Gly Phe Ser Glu Pro Leu
      35              40              45
Thr Phe Cys Ser Val Val Asp Leu Ile Asn His Tyr Arg His Glu Ser
      50              55              60
Leu Ala Gln Tyr Asn Ala Lys Leu Asp Thr Arg Leu Leu Tyr Pro Val
      65              70              75              80
Ser Lys Tyr Gln Gln Val Arg Ala Gly Leu Gly Ala Arg Glu Gly Ser
      85              90              95
Thr Trp Leu Ala Pro Gly Leu Ser Phe Leu Gly Arg Pro Asp Gln Ala
      100             105             110
Met His Leu Pro Ser Phe Arg His Val Ser Pro Asp Gln Ile Val Lys
      115             120             125
Glu Asp Ser Val Glu Ala Val Gly Ala Gln Leu Lys Val Tyr His Gln
      130             135             140
Gln Tyr Gln Asp Lys Ser Arg Glu Tyr Asp Gln Leu Tyr Glu Glu Tyr
      145             150             155             160
Thr Arg Thr Ser Gln Glu Leu Gln Met Lys Arg Thr Ala Ile Glu Ala
      165             170             175
Phe Asn Glu Thr Ile Lys Ile Phe Glu Glu Gln Gly Gln Thr Gln Glu
      180             185             190
Lys Cys Ser Lys Glu Tyr Leu Glu Arg Phe Arg Arg Glu Gly Asn Gln
      195             200             205
Thr Lys Glu Met Gln Arg Ile Leu Leu Asn Ser Glu Arg Leu Lys Ser
      210             215             220
Arg Ile Ala Glu Ile His Glu Ser Pro His Arg Ser Trp Glu Gln Gln
      225             230             235             240
Leu Leu Val Pro Arg Ala Ser Asp Asn Lys Arg Asp Ile Asp Lys Pro

```

His Xaa Thr Ser Leu Lys Pro Asp Leu

245 250 255

260 265

```
<210> 1301
<211> 490
<212>Amino acid
<213> Homo sapiens
```

<400> 1301																
Ala 1	Ala	Ala	Ala	Ala 5	Gly	Arg	Gly	Arg	Ser 10	Ser	Gly	Arg	Arg	Arg	Arg	Arg
Arg	Arg	Pro	Gly 20	Ala	Leu	Phe	Ala	Ser 25	Leu	Gly	Val	Leu	Leu	Gly 30	Pro	Pro
Arg	Pro	Pro	Gly 35	Ile	Pro	Arg	Thr 40	Arg	Ala	Cys	Ser 45	Met	Gly	Gly		
Val	Gly	Glu	Pro	Gly	Pro	Arg	Glu 55	Gly	Pro	Ala	Gln 60	Pro	Gly	Ala	Pro	Pro
Leu 65	Pro	Thr	Phe	Cys	Trp 70	Glu	Gln	Ile	Arg	Ala	His 75	Asp	Gln	Pro	Gly	80
Asp	Lys	Trp	Leu	Val 85	Ile	Glu	Arg	Arg	Val 90	Tyr	Asp	Ile	Ser	Arg	Trp	95
Ala	Gln	Arg	His 100	Pro	Gly	Gly	Ser	Arg 105	Leu	Ile	Gly	His	His	Gly	Ala	110
Glu	Asp	Ala	Thr 115	Asp	Ala	Phe	Arg	Ala 120	Phe	His	Gln	Asp	Leu	Asn	Phe	125
Val	Arg	Lys	Phe	Leu	Gln	Pro	Leu 135	Leu	Ile	Gly	Glu 140	Leu	Ala	Pro	Glu	145
Glu	Pro	Ser	Gln	Asp	Gly 150	Pro	Leu	Asn	Ala	Gln	Leu	Val	Glu	Asp	Phe	160
Arg	Ala	Leu	His	Gln	Ala 165	Ala	Glu	Asp	Met	Lys	Leu	Phe	Asp	Ala	Ser	175
Pro	Thr	Phe	Phe 180	Ala	Phe	Leu	Leu	Gly 185	His	Ile	Leu	Ala	Met	Glu	Val	190
Leu	Ala	Trp	Leu 195	Leu	Ile	Tyr	Leu	Gly 200	Pro	Gly	Trp	Val	Pro	Ser		205
Ala	Leu	Ala	Ala 210	Phe	Ile	Leu	Ala 215	Ile	Ser	Gln	Ala	Gln	Ser	Trp	Cys	220
Leu	Gln	His	Asp	Leu	Gly 230	His	Ala	Ser	Ile	Phe	Lys	Lys	Ser	Trp	Trp	240
Asn	His	Val	Ala	Gln	Lys 245	Phe	Val	Met	Gly	Gln	Leu	Lys	Gly	Phe	Ser	255
Ala	His	Trp	Trp 260	Asn	Phe	Arg	His	Phe 265	Gln	His	His	Ala	Lys	Pro	Asn	270
Ile	Phe	His	Lys 275	Asp	Pro	Asp	Val	Thr 280	Val	Ala	Pro	Val	Phe	Leu	Leu	285
Gly	Glu	Ser	Ser 290	Val	Glu	Tyr	Gly 295	Lys	Lys	Lys	Arg	Arg	Tyr	Leu	Pro	300
Tyr	Asn	Gln	Gln	His	Leu	Tyr	Phe	Phe	Leu	Ile	Gly	Pro	Pro	Leu	Leu	315
Thr	Leu	Val	Asn	Phe	Glu	Val	Glu	Asn	Leu	Ala	Tyr	Met	Leu	Val	Cys	330
Met	Gln	Trp	Ala 340	Asp	Leu	Leu	Trp	Ala 345	Ala	Ser	Phe	Tyr	Ala	Arg	Phe	350
Phe	Leu	Ser	Tyr 355	Leu	Pro	Phe	Tyr	Gly 360	Val	Pro	Gly	Val	Leu	Leu	Phe	365
Phe	Val	Ala	Val 370	Arg	Val	Leu	Glu	Ser	His	Trp	Phe	Val	Trp	Ile	Thr	380
Gln	Met	Asn	His	Ile	Pro	Lys	Glu	Ile	Gly	His	Glu	Lys	His	Arg	Asp	

```

385          390          395          400
Trp Val Ser Ser Gln Leu Ala Ala Thr Cys Asn Val Glu Pro Ser Leu
          405          410          415
Phe Thr Asn Trp Phe Ser Gly His Leu Asn Phe Gln Ile Glu His His
          420          425          430
Leu Phe Pro Arg Met Pro Arg His Asn Tyr Ser Arg Val Ala Pro Leu
          435          440          445
Val Lys Ser Leu Cys Ala Lys His Gly Leu Ser Tyr Glu Val Lys Pro
          450          455          460
Phe Leu Thr Ala Leu Val Asp Ile Val Arg Ser Leu Lys Lys Ser Gly
465          470          475          480
Asp Ile Trp Leu Asp Ala Tyr Leu His Gln
          485          490

```

```

<210> 1302
<211> 110
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1302
Lys Ser Arg Ala Thr Arg Leu Arg Glu Ser Ala Glu Met Thr Gly Phe
 1          5          10          15
Leu Leu Pro Pro Ala Ser Arg Gly Thr Arg Arg Ser Cys Ser Arg Ser
          20          25          30
Arg Lys Arg Gln Thr Arg Arg Arg Arg Asn Pro Ser Ser Phe Val Ala
          35          40          45
Ser Cys Pro Thr Leu Leu Pro Phe Ala Cys Val Pro Gly Ala Ser Pro
          50          55          60
Thr Thr Leu Ala Phe Pro Pro Val Val Leu Thr Gly Pro Ser Thr Asp
          65          70          75          80
Gly Ile Pro Phe Ala Leu Ser Leu Gln Arg Val Pro Phe Val Leu Pro
          85          90          95
Ser Pro Gln Val Ala Ser Leu Pro Leu Gly His Ser Arg Gly
          100          105          110

```

```

<210> 1303
<211> 138
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1303
Ile Gln Tyr Arg Ser Asp Leu Glu Leu His Ser Ile Thr Met Lys Lys
 1          5          10          15
Ser Gly Val Leu Phe Leu Leu Gly Ile Ile Leu Leu Val Leu Ile Gly
          20          25          30
Val Gln Gly Thr Pro Val Val Arg Lys Gly Arg Cys Ser Cys Ile Ser
          35          40          45
Thr Asn Gln Gly Thr Ile His Leu Gln Ser Leu Lys Asp Leu Lys Gln
          50          55          60
Phe Ala Pro Ser Pro Ser Cys Glu Lys Ile Glu Ile Ile Ala Thr Leu
          65          70          75          80
Lys Asn Gly Val Gln Thr Cys Leu Asn Pro Asp Ser Ala Asp Val Lys
          85          90          95
Glu Leu Ile Lys Lys Trp Glu Lys Gln Val Ser Gln Lys Lys Lys Gln

```

100 105 110  
 Lys Asn Gly Lys Lys His Gln Lys Lys Lys Val Leu Lys Val Arg Lys  
 115 120 125  
 Ser Gln Arg Ser Arg Gln Lys Lys Thr Thr  
 130 135 138

<210> 1304  
 <211> 1000  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1304  
 Ile Pro Gly Ser Thr Ile Ser Cys Arg Gly Cys Cys Gly Lys Trp Pro  
 1 5 10 15  
 Val Gln Glu Ala Asp Pro Pro Arg Ala Ala Leu Arg Gly Arg Phe Pro  
 20 25 30  
 Ala Leu Leu Thr Arg His Cys Pro Ser Pro Arg Ala Glu Lys Glu Lys  
 35 40 45  
 Arg Ser Leu Arg Arg Cys Gly Cys Arg Pro Leu Leu Val Glu Leu Ala  
 50 55 60  
 Gly Pro Ala Gly Gln Ala Val Glu Val Leu Pro His Phe Glu Ser Leu  
 65 70 75 80  
 Gly Lys Gln Glu Lys Ile Pro Asn Lys Met Ser Ala Phe Arg Asn His  
 85 90 95  
 Cys Pro His Leu Asp Ser Val Gly Glu Ile Thr Lys Glu Asp Leu Ile  
 100 105 110  
 Gln Lys Ser Leu Gly Thr Cys Gln Asp Cys Lys Val Gln Gly Pro Asn  
 115 120 125  
 Leu Trp Ala Cys Leu Glu Asn Arg Cys Ser Tyr Val Gly Cys Gly Glu  
 130 135 140  
 Ser Gln Val Asp His Ser Thr Ile His Ser Gln Glu Thr Lys His Tyr  
 145 150 155 160  
 Leu Thr Val Asn Leu Thr Thr Leu Arg Val Trp Cys Tyr Ala Cys Ser  
 165 170 175  
 Lys Glu Val Phe Leu Asp Arg Lys Leu Gly Thr Gln Pro Ser Leu Pro  
 180 185 190  
 His Val Arg Gln Pro His Gln Ile Gln Glu Asn Ser Val Gln Asp Phe  
 195 200 205  
 Lys Ile Pro Ser Asn Thr Thr Leu Lys Thr Pro Leu Val Ala Val Phe  
 210 215 220  
 Asp Asp Leu Asp Ile Glu Ala Asp Glu Glu Asp Glu Leu Arg Ala Arg  
 225 230 235 240  
 Gly Leu Thr Gly Leu Lys Asn Ile Gly Asn Thr Cys Tyr Met Asn Ala  
 245 250 255  
 Ala Leu Gln Ala Leu Ser Asn Cys Pro Pro Leu Thr Gln Phe Phe Leu  
 260 265 270  
 Asp Cys Gly Gly Leu Ala Arg Thr Asp Lys Lys Pro Ala Ile Cys Lys  
 275 280 285  
 Ser Tyr Leu Lys Leu Met Thr Glu Leu Trp Tyr Lys Ser Arg Pro Gly  
 290 295 300  
 Ser Val Val Pro Thr Thr Leu Phe Gln Gly Ile Lys Thr Val Asn Pro  
 305 310 315 320  
 Thr Phe Arg Gly Tyr Ser Gln Gln Asp Ala Gln Glu Phe Leu Arg Cys  
 325 330 335  
 Leu Met Asp Leu Leu His Glu Glu Leu Lys Glu Gln Val Met Glu Val  
 340 345 350  
 Glu Glu Asp Pro Gln Thr Ile Thr Thr Glu Glu Thr Met Glu Glu Asp  
 355 360 365  
 Lys Ser Gln Ser Asp Val Asp Phe Gln Ser Cys Glu Ser Cys Ser Asn

370	375	380
Ser Asp Arg Ala Glu Asn Glu Asn Gly Ser Arg Cys Phe Ser Glu Asp		
385	390	395
Asn Asn Glu Thr Thr Met Leu Ile Gln Asp Asp Glu Asn Asn Ser Glu		400
	405	410
Met Ser Lys Asp Trp Gln Lys Glu Lys Met Cys Asn Lys Ile Asn Lys		415
	420	425
Val Asn Ser Glu Gly Glu Phe Asp Lys Asp Arg Asp Ser Ile Ser Glu		430
	435	440
Thr Val Asp Leu Asn Asn Gln Glu Thr Val Lys Val Gln Ile His Ser		445
	450	455
Arg Ala Ser Glu Tyr Ile Thr Asp Val His Ser Asn Asp Leu Ser Thr		460
465	470	475
Pro Gln Ile Leu Pro Ser Asn Glu Gly Val Asn Pro Arg Leu Ser Ala		480
	485	490
Ser Pro Pro Lys Ser Gly Asn Leu Trp Pro Gly Leu Ala Pro Pro His		495
	500	505
Lys Lys Ala Gln Ser Ala Ser Pro Lys Arg Lys Lys Gln His Lys Lys		510
	515	520
Tyr Arg Ser Val Ile Ser Asp Ile Phe Asp Gly Thr Ile Ile Ser Ser		525
	530	535
Val Gln Cys Leu Thr Cys Asp Arg Val Ser Val Thr Leu Glu Thr Phe		540
545	550	555
Gln Asp Leu Ser Leu Pro Ile Pro Gly Lys Glu Asp Leu Ala Lys Leu		560
	565	570
His Ser Ser Ser His Pro Thr Ser Ile Val Lys Ala Gly Ser Cys Gly		575
	580	585
Glu Ala Tyr Ala Pro Gln Gly Trp Ile Ala Phe Phe Met Glu Tyr Val		590
	595	600
Lys Arg Phe Val Val Ser Cys Val Pro Ser Trp Phe Trp Gly Pro Val		605
	610	615
Val Thr Leu Gln Asp Cys Leu Ala Ala Phe Phe Ala Arg Asp Glu Leu		620
625	630	635
Lys Gly Asp Asn Met Tyr Ser Cys Glu Lys Cys Lys Lys Leu Arg Asn		640
	645	650
Gly Val Lys Phe Cys Lys Val Gln Asn Phe Pro Glu Ile Leu Cys Ile		655
	660	665
His Leu Lys Arg Phe Arg His Glu Leu Met Phe Ser Thr Lys Ile Ser		670
	675	680
Thr His Val Ser Phe Pro Leu Glu Gly Leu Asp Leu Gln Pro Phe Leu		685
	690	695
Ala Lys Asp Ser Pro Ala Gln Ile Val Thr Tyr Asp Leu Leu Ser Val		700
705	710	715
Ile Cys His His Gly Thr Ala Ser Ser Gly His Tyr Ile Ala Tyr Cys		720
	725	730
Arg Asn Asn Leu Asn Asn Leu Trp Tyr Glu Phe Asp Asp Gln Ser Val		735
	740	745
Thr Glu Val Ser Glu Ser Thr Val Gln Asn Ala Glu Ala Tyr Val Leu		750
	755	760
Phe Tyr Arg Lys Ser Ser Glu Ala Gln Lys Glu Arg Arg Arg Ile		765
770	775	780
Ser Asn Leu Leu Asn Ile Met Glu Pro Ser Leu Leu Gln Phe Tyr Ile		785
	790	795
Ser Arg Gln Trp Leu Asn Lys Phe Lys Thr Phe Ala Glu Pro Gly Pro		800
	805	810
Ile Ser Asn Asn Asp Phe Leu Cys Ile His Gly Gly Val Pro Pro Arg		815
	820	825
Lys Ala Gly Tyr Ile Glu Asp Leu Val Leu Met Leu Pro Gln Asn Ile		830
	835	840
Trp Asp Asn Leu Tyr Ser Arg Tyr Gly Gly Gly Pro Ala Val Asn His		845
	850	855
Leu Tyr Ile Cys His Thr Cys Gln Ile Glu Ala Glu Lys Ile Glu Lys		860
865	870	875
Arg Arg Lys Thr Glu Leu Glu Ile Phe Ile Arg Leu Asn Arg Ala Phe		880

```

      885      890      895
Gln Lys Glu Asp Ser Pro Ala Thr Phe Tyr Cys Ile Ser Met Gln Trp
      900      905      910
Phe Arg Glu Trp Glu Ser Phe Val Lys Gly Lys Asp Gly Asp Pro Pro
      915      920      925
Gly Pro Ile Asp Asn Thr Lys Ile Ala Val Thr Lys Cys Gly Asn Val
      930      935      940
Met Leu Arg Gln Gly Ala Asp Ser Gly Gln Ile Ser Glu Glu Thr Trp
      945      950      955      960
Asn Phe Leu Gln Ser Ile Tyr Gly Gly Gly Pro Glu Val Ile Leu Arg
      965      970      975
Pro Pro Val Val His Val Asp Pro Asp Ile Leu Gln Ala Glu Glu Lys
      980      985      990
Ile Glu Val Glu Thr Arg Ser Leu
      995      1000

```

```

<210> 1305
<211> 141
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1305
Ser Pro Ser Ala Ala Gly Gly Leu Ala Trp Val Ser Leu Ala Leu Gly
  1          5          10          15
Ser Gly Ser Arg Gly Arg Asp His Ser Gly Ser Gly Val Gly Thr Ala
      20          25          30
Met Ala Gly Ala Leu Val Arg Lys Ala Ala Asp Tyr Val Arg Ser Lys
      35          40          45
Asp Phe Arg Asp Tyr Leu Met Ser Thr His Phe Trp Gly Pro Val Ala
      50          55          60
Asn Trp Gly Leu Pro Ile Ala Ala Ile Asn Asp Met Lys Lys Ser Pro
      65          70          75          80
Glu Ile Ile Ser Gly Arg Met Thr Phe Ala Leu Cys Cys Tyr Ser Leu
      85          90          95
Thr Phe Met Arg Phe Ala Tyr Lys Val Gln Pro Arg Asn Trp Leu Leu
      100          105          110
Phe Ala Cys His Ala Thr Asn Glu Val Ala Gln Leu Ile Gln Gly Gly
      115          120          125
Arg Leu Ile Lys His Glu Met Thr Lys Thr Ala Ser Ala
      130          135          140 141

```

```

<210> 1306
<211> 386
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1306
Leu Gly Ser Arg Gln Ala Ala Gly Thr Met Arg Gly Gln Arg Ser Leu
  1          5          10          15
Leu Leu Gly Pro Ala Arg Leu Cys Leu Arg Leu Leu Leu Leu Gly
      20          25          30
Tyr Arg Arg Arg Cys Pro Pro Leu Arg Gly Leu Val Gln Arg Trp
      35          40          45
Arg Tyr Gly Lys Val Cys Leu Arg Ser Leu Leu Tyr Asn Ser Phe Gly

```



```

      50              55              60
Gly Ser Asp Thr Ala Val Asp Ala Ala Phe Glu Pro Val Tyr Trp Leu
 65              70              75              80
Val Asp Asn Val Ile Arg Trp Phe Gly Val Val Phe Val Val Leu Val
      85              90              95
Ile Val Leu Thr Gly Ser Ile Val Ala Ile Ala Tyr Leu Cys Val Leu
 100              105              110
Pro Leu Ile Leu Arg Thr Tyr Ser Val Pro Arg Leu Cys Trp His Phe
 115              120              125
Phe Tyr Ser His Trp Asn Leu Ile Leu Ile Val Phe His Tyr Tyr Gln
 130              135              140
Ala Ile Thr Thr Pro Pro Gly Tyr Pro Pro Gln Gly Arg Asn Asp Ile
 145              150              155              160
Ala Thr Val Ser Ile Cys Lys Lys Cys Ile Tyr Pro Lys Pro Ala Arg
      165              170              175
Thr His His Cys Ser Ile Cys Asn Arg Cys Val Leu Lys Met Asp His
 180              185              190
His Cys Pro Trp Leu Asn Asn Cys Val Gly His Tyr Asn His Arg Tyr
 195              200              205
Phe Phe Ser Phe Cys Phe Phe Met Thr Leu Gly Cys Val Tyr Cys Ser
 210              215              220
Tyr Gly Ser Trp Asp Leu Phe Arg Glu Ala Tyr Ala Ala Ile Glu Lys
 225              230              235              240
Met Lys Gln Leu Asp Lys Asn Lys Leu Gln Ala Val Ala Asn Gln Thr
      245              250              255
Tyr His Gln Thr Pro Pro Pro Thr Phe Ser Phe Arg Glu Arg Met Thr
 260              265              270
His Lys Ser Leu Val Tyr Leu Trp Phe Leu Cys Ser Ser Val Ala Leu
 275              280              285
Ala Leu Gly Ala Leu Thr Val Trp His Ala Val Leu Ile Ser Arg Gly
 290              295              300
Glu Thr Ser Ile Glu Arg His Ile Asn Lys Lys Glu Arg Arg Arg Leu
 305              310              315              320
Gln Ala Lys Gly Arg Val Phe Arg Asn Pro Tyr Asn Tyr Gly Cys Leu
      325              330              335
Asp Asn Trp Lys Val Phe Leu Gly Val Asp Thr Gly Arg His Trp Leu
 340              345              350
Thr Arg Val Leu Leu Pro Ser Ser His Leu Pro His Gly Asn Gly Met
 355              360              365
Ser Trp Glu Pro Pro Pro Trp Val Thr Ala His Ser Ala Ser Val Met
 370              375              380
Ala Val
385 386

```

&lt;210&gt; 1307

&lt;211&gt; 298

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1307

```

Ala Thr Arg Arg Arg Ala Ala Glu Ala Gly Met Ala Ala Val Leu Gln
 1              5              10              15
Arg Val Glu Arg Leu Ser Asn Arg Val Val Arg Val Leu Gly Cys Asn
      20              25              30
Pro Gly Pro Met Thr Leu Gln Gly Thr Asn Thr Tyr Leu Val Gly Thr
      35              40              45
Gly Pro Arg Arg Ile Leu Ile Asp Thr Gly Glu Pro Ala Ile Pro Glu
 50              55              60
Tyr Ile Ser Cys Leu Lys Gln Ala Leu Thr Glu Phe Asn Thr Ala Ile

```

```

65              70              75              80
Gln Glu Ile Val Val Thr His Trp His Arg Asp His Ser Gly Gly Ile
      85              90              95
Gly Asp Ile Cys Lys Ser Ile Asn Asn Asp Thr Thr Tyr Cys Ile Lys
      100              105              110
Lys Leu Pro Arg Asn Pro Gln Arg Glu Glu Ile Ile Gly Asn Gly Glu
      115              120              125
Gln Gln Tyr Val Tyr Leu Lys Asp Gly Asp Val Ile Lys Thr Glu Gly
      130              135              140
Ala Thr Leu Arg Val Leu Tyr Thr Pro Gly His Thr Asp Asp His Met
      145              150              155              160
Ala Leu Leu Leu Glu Glu Glu Asn Ala Ile Phe Ser Gly Asp Cys Ile
      165              170              175
Leu Gly Glu Gly Thr Thr Val Phe Glu Asp Leu Tyr Asp Tyr Met Asn
      180              185              190
Ser Leu Lys Glu Leu Leu Lys Ile Lys Ala Asp Ile Ile Tyr Pro Gly
      195              200              205
His Gly Pro Val Ile His Asn Ala Glu Ala Lys Ile Gln Gln Tyr Ile
      210              215              220
Ser His Arg Asn Ile Arg Glu Gln Gln Ile Leu Thr Leu Phe Arg Glu
      225              230              235              240
Asn Phe Glu Lys Ser Phe Thr Val Met Glu Leu Val Lys Ile Ile Tyr
      245              250              255
Lys Asn Thr Pro Glu Asn Leu His Glu Met Ala Lys His Asn Leu Leu
      260              265              270
Leu His Leu Lys Lys Leu Glu Lys Glu Gly Lys Ile Phe Ser Asn Thr
      275              280              285
Asp Pro Asp Lys Lys Trp Lys Ala His Leu
      290              295              298

```

<210> 1308  
 <211> 306  
 <212> Amino acid  
 <213> Homo sapiens

```

      <400> 1308
Glu Leu His Arg Ala Gly Gln Val Ala Gly Gly Ala Arg Arg Ser Arg
1      5      10      15
Arg Glu Ser Met Glu Leu Glu Arg Ile Val Ser Ala Ala Leu Leu Ala
      20      25      30
Phe Val Gln Thr His Leu Pro Glu Ala Asp Leu Ser Gly Leu Asp Glu
      35      40      45
Val Ile Phe Ser Tyr Val Leu Gly Val Leu Glu Asp Leu Gly Pro Ser
      50      55      60
Gly Pro Ser Glu Glu Asn Phe Asp Met Glu Ala Phe Thr Glu Met Met
      65      70      75      80
Glu Ala Tyr Val Pro Gly Phe Ala His Ile Pro Arg Gly Thr Ile Gly
      85      90      95
Asp Met Met Gln Lys Leu Ser Gly Gln Leu Ser Asp Ala Arg Asn Lys
      100      105      110
Glu Asn Leu Gln Pro Gln Ser Ser Gly Val Gln Gly Gln Val Pro Ile
      115      120      125
Ser Pro Glu Pro Leu Gln Arg Pro Glu Met Leu Lys Glu Glu Thr Arg
      130      135      140
Ser Ser Ala Ala Ala Ala Ala Asp Thr Gln Asp Glu Ala Thr Gly Ala
      145      150      155      160
Glu Glu Glu Leu Leu Pro Gly Val Asp Val Leu Leu Glu Val Phe Pro
      165      170      175
Thr Cys Ser Val Glu Gln Ala Gln Trp Val Leu Ala Lys Ala Arg Gly

```

```

      180      185      190
Asp Leu Glu Glu Ala Val Gln Met Leu Val Glu Gly Lys Glu Glu Gly
      195      200      205
Pro Ala Ala Trp Glu Gly Pro Asn Gln Asp Leu Pro Arg Arg Leu Arg
      210      215      220
Gly Pro Gln Lys Asp Glu Leu Lys Ser Phe Ile Leu Gln Lys Tyr Met
225      230      235      240
Met Val Asp Ser Ala Glu Asp Gln Lys Ile His Arg Pro Met Ala Pro
      245      250      255
Lys Glu Ala Pro Lys Lys Leu Ile Arg Tyr Ile Asp Asn Gln Val Val
      260      265      270
Ser Thr Lys Gly Glu Arg Phe Lys Asp Val Arg Asn Pro Glu Ala Glu
      275      280      285
Glu Met Lys Ala Thr Tyr Ile Asn Leu Lys Pro Ala Arg Lys Tyr Arg
290      295      300
Phe His
305 306

```

```

<210> 1309
<211> 174
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1309
Phe Ile Thr Gly Lys Gly Ile Val Ala Ile Leu Arg Cys Leu Gln Phe
 1      5      10      15
Asn Glu Thr Leu Thr Glu Leu Arg Phe His Asn Gln Arg His Met Leu
      20      25      30
Gly His His Ala Glu Met Glu Ile Ala Arg Leu Leu Lys Ala Asn Asn
      35      40      45
Thr Leu Leu Lys Met Gly Tyr His Phe Glu Leu Pro Gly Pro Arg Met
      50      55      60
Val Val Thr Asn Leu Leu Thr Arg Asn Gln Asp Lys Gln Arg Gln Lys
      65      70      75      80
Arg Gln Glu Glu Gln Lys Gln Gln Gln Leu Lys Glu Gln Lys Lys Leu
      85      90      95
Ile Ala Met Leu Glu Asn Gly Leu Gly Leu Pro Pro Gly Met Trp Glu
      100      105      110
Leu Leu Gly Gly Pro Lys Pro Asp Ser Arg Met Gln Glu Phe Phe Gln
      115      120      125
Pro Pro Pro Pro Arg Pro Pro Asn Pro Gln Asn Val Pro Phe Ser Gln
      130      135      140
Arg Ser Glu Met Met Lys Lys Pro Ser Gln Ala Pro Lys Tyr Arg Thr
145      150      155      160
Asp Pro Asp Ser Phe Arg Val Val Lys Leu Lys Arg Ile Gln
      165      170      174

```

```

<210> 1310
<211> 616
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(616)
<223> X = any amino acid or stop code

```

<400> 1310

Gly	Gly	Arg	Ala	Gly	Thr	Gln	Cys	Cys	Trp	Arg	Ala	Gly	Ala	Arg	Leu
1				5					10					15	
Arg	Gly	Ile	Ser	Pro	Ser	Pro	Ala	Leu	Pro	Glu	Ala	Pro	Gly	Leu	Cys
			20					25					30		
Arg	Val	Arg	Ala	Gly	Leu	Gly	Ala	Gly	Ala	Leu	Gly	Arg	Ser	Pro	Ala
		35					40					45			
Gly	Arg	Arg	Arg	Arg	Gly	Pro	Arg	Val	Ser	Ser	Ser	Pro	Ala	Pro	His
	50					55					60				
Pro	Arg	Arg	Val	Leu	Cys	Arg	Cys	Leu	Leu	Phe	Leu	Phe	Phe	Ser	Cys
	65				70					75					80
His	Asp	Arg	Arg	Gly	Asp	Ser	Gln	Pro	Tyr	Gln	Ala	Leu	Lys	Tyr	Ser
				85					90					95	
Ser	Lys	Ser	His	Pro	Ser	Ser	Gly	Asp	His	Arg	His	Glu	Lys	Met	Arg
			100					105					110		
Asp	Ala	Gly	Asp	Pro	Ser	Pro	Pro	Asn	Lys	Met	Leu	Arg	Arg	Ser	Asp
		115					120					125			
Ser	Pro	Glu	Asn	Lys	Tyr	Ser	Asp	Ser	Thr	Gly	His	Ser	Lys	Ala	Lys
	130					135					140				
Asn	Val	His	Thr	His	Arg	Val	Arg	Glu	Arg	Asp	Gly	Gly	Thr	Ser	Tyr
	145				150					155					160
Ser	Pro	Gln	Glu	Asn	Ser	His	Asn	His	Ser	Ala	Leu	His	Ser	Ser	Asn
				165					170					175	
Phe	Thr	Phe	Phe	Leu	Ile	Pro	Ser	Asn	Xaa	Pro	Gln	Gly	Lys	Thr	Phe
			180					185					190		
Arg	Ile	Ala	Pro	Tyr	Asp	Ser	Ala	Asp	Asp	Trp	Ser	Leu	Glu	His	Ile
		195					200					205			
Ser	Ser	Ser	Gly	Glu	Lys	Tyr	Tyr	Tyr	Asn	Cys	Arg	Thr	Glu	Val	Ser
	210					215				220					
Gln	Trp	Gly	Lys	Thr	Pro	Lys	Ser	Gly	Leu	Glu	Arg	Gly	Gln	Arg	Gln
	225				230					235					240
Lys	Glu	Ala	Asn	Lys	Met	Ala	Val	Asn	Ser	Phe	Pro	Lys	Asp	Arg	Asp
			245						250				255		
Tyr	Arg	Arg	Glu	Val	Met	Gln	Ala	Thr	Ala	Thr	Ser	Gly	Phe	Ala	Ser
			260					265					270		
Gly	Lys	Ser	Thr	Ser	Gly	Asp	Lys	Pro	Val	Ser	His	Ser	Cys	Thr	Thr
		275				280						285			
Pro	Ser	Thr	Ser	Ser	Ala	Ser	Gly	Leu	Asn	Pro	Thr	Ser	Ala	Pro	Pro
	290					295					300				
Thr	Ser	Ala	Ser	Ala	Val	Pro	Val	Ser	Pro	Val	Pro	Gln	Ser	Pro	Ile
	305				310					315					320
Pro	Pro	Leu	Leu	Gln	Asp	Pro	Asn	Leu	Leu	Arg	Gln	Leu	Leu	Pro	Ala
			325					330					335		
Leu	Glu	Ala	Thr	Leu	Gln	Leu	Asn	Asn	Ser	Asn	Val	Asp	Ile	Ser	Ile
		340					345					350			
Ile	Asn	Glu	Val	Leu	Thr	Gly	Asp	Val	Thr	Gln	Ala	Ser	Leu	Gln	Thr
	355					360					365				
Ile	Ile	His	Lys	Cys	Leu	Thr	Ala	Gly	Pro	Ser	Val	Phe	Lys	Ile	Thr
	370				375					380					
Ser	Leu	Ile	Ser	Gln	Ala	Ala	Gln	Leu	Ser	Thr	Gln	Ala	Gln	Ala	Ser
	385				390					395					400
Asn	Gln	Ser	Pro	Met	Ser	Leu	Thr	Ser	Asp	Ala	Ser	Ser	Pro	Arg	Ser
			405						410				415		
Tyr	Val	Ser	Pro	Arg	Asn	Lys	Ala	His	Leu	Lys	Leu	Asn	Thr	Val	Pro
			420					425					430		
Ile	Gln	Thr	Phe	Gly	Phe	Ser	Thr	Pro	Pro	Val	Ser	Ser	Gln	Pro	Lys
		435				440						445			
Val	Ser	Thr	Pro	Val	Val	Lys	Gln	Gly	Pro	Val	Ser	Gln	Ser	Ala	Thr
	450					455					460				
Gln	Gln	Pro	Val	Thr	Ala	Asp	Lys	Gln	Gln	Gly	His	Glu	Pro	Val	Ser
	465				470					475					480

Pro Arg Ser Leu Gln Arg Ser Ser Ser Gln Arg Ser Pro Ser Pro Gly  
 485 490 495  
 Pro Asn His Thr Ser Asn Ser Ser Asn Ala Ser Asn Ala Thr Val Val  
 500 505 510  
 Pro Gln Asn Ser Ser Ala Arg Ser Thr Cys Ser Leu Thr Pro Ala Leu  
 515 520 525  
 Ala Ala His Phe Ser Glu Asn Leu Ile Lys His Val Gln Gly Trp Pro  
 530 535 540  
 Ala Asp His Ala Glu Lys Gln Ala Ser Arg Leu Arg Glu Glu Ala His  
 545 550 555 560  
 Asn Met Gly Thr Ile His Met Ser Glu Ile Cys Thr Glu Leu Lys Asn  
 565 570 575  
 Leu Arg Ser Leu Val Arg Val Cys Glu Ile Gln Ala Thr Leu Arg Glu  
 580 585 590  
 Gln Arg Ile Leu Phe Leu Arg Gln Gln Ile Lys Glu Leu Glu Lys Leu  
 595 600 605  
 Lys Asn Gln Asn Ser Phe Met Val  
 610 615 616

<210> 1311  
 <211> 387  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1311  
 Val Ala Pro Glu Cys Arg Gly Ala Tyr Pro Phe Arg Ala Met Met Pro  
 1 5 10 15  
 Gly Thr Ala Leu Lys Ala Val Leu Leu Ala Val Leu Leu Val Gly Leu  
 20 25 30  
 Gln Thr Ala Thr Gly Arg Leu Leu Ser Gly Gln Pro Val Cys Arg Gly  
 35 40 45  
 Gly Thr Gln Arg Pro Cys Tyr Lys Val Ile Tyr Phe His Asp Thr Ser  
 50 55 60  
 Arg Arg Leu Asn Phe Glu Glu Ala Lys Glu Ala Cys Arg Arg Asp Gly  
 65 70 75 80  
 Gly Gln Leu Val Ser Ile Glu Ser Glu Asp Glu Gln Lys Leu Ile Glu  
 85 90 95  
 Lys Phe Ile Glu Asn Leu Leu Pro Ser Asp Gly Asp Phe Trp Ile Gly  
 100 105 110  
 Leu Arg Arg Arg Glu Glu Lys Gln Ser Asn Ser Thr Ala Cys Gln Asp  
 115 120 125  
 Leu Tyr Ala Trp Thr Asp Gly Ser Ile Ser Gln Phe Arg Asn Trp Tyr  
 130 135 140  
 Val Asp Glu Pro Ser Cys Gly Ser Glu Val Cys Val Val Met Tyr His  
 145 150 155 160  
 Gln Pro Ser Ala Pro Ala Gly Ile Gly Gly Pro Tyr Met Phe Gln Trp  
 165 170 175  
 Asn Asp Asp Arg Cys Asn Met Lys Asn Asn Phe Ile Cys Lys Tyr Ser  
 180 185 190  
 Asp Glu Lys Pro Ala Val Pro Ser Arg Glu Ala Glu Gly Glu Glu Thr  
 195 200 205  
 Glu Leu Thr Thr Pro Val Leu Pro Glu Glu Thr Gln Glu Glu Asp Ala  
 210 215 220  
 Lys Lys Thr Phe Lys Glu Ser Arg Glu Ala Ala Leu Asn Leu Ala Tyr  
 225 230 235 240  
 Ile Leu Ile Pro Ser Ile Pro Leu Leu Leu Leu Val Val Thr Thr  
 245 250 255  
 Val Val Cys Trp Val Trp Ile Cys Arg Lys Arg Lys Arg Glu Gln Pro  
 260 265 270

Asp Pro Ser Thr Lys Lys Gln His Thr Ile Trp Pro Ser Pro His Gln  
           275                          280                          285  
 Gly Asn Ser Pro Asp Leu Glu Val Tyr Asn Val Ile Arg Lys Gln Ser  
           290                          295                          300  
 Glu Ala Asp Leu Ala Glu Thr Arg Pro Asp Leu Lys Asn Ile Ser Phe  
           305                          310                          315                          320  
 Arg Val Cys Ser Gly Glu Ala Thr Pro Asp Asp Met Ser Cys Asp Tyr  
                           325                          330                          335  
 Asp Asn Met Ala Val Asn Pro Ser Glu Ser Gly Phe Val Thr Leu Val  
                           340                          345                          350  
 Ser Val Glu Ser Gly Phe Val Thr Asn Asp Ile Tyr Glu Phe Ser Pro  
                           355                          360                          365  
 Asp Gln Met Gly Arg Ser Lys Glu Ser Gly Trp Val Glu Asn Glu Ile  
           370                          375                          380  
 Tyr Gly Tyr  
 385          387

<210> 1312  
 <211> 470  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1312  
 Thr Glu Trp Gly Leu Ser Gly Ser Cys Pro Gly Cys Ser Pro Leu Glu  
   1                          5                          10                          15  
 Pro Gly Ser Arg Gly Arg Gly Ala Ala Ala Trp Arg Ile Leu Arg Cys  
           20                          25                          30  
 Arg Arg Leu Pro Glu Pro Ser Pro Phe Leu Thr Gln Pro Asn Leu Ala  
           35                          40                          45  
 Gln Ser Gln Pro Pro Ala Pro Val Pro Val Thr Asp Pro Ser Val Thr  
           50                          55                          60  
 Met His Pro Ala Val Phe Leu Ser Leu Pro Asp Leu Arg Cys Ser Leu  
           65                          70                          75                          80  
 Leu Leu Leu Val Thr Trp Val Phe Thr Pro Val Thr Thr Glu Ile Thr  
                           85                          90                          95  
 Ser Leu Asp Thr Glu Asn Ile Asp Glu Ile Leu Asn Asn Ala Asp Val  
           100                          105                          110  
 Ala Leu Val Asn Phe Tyr Ala Asp Trp Cys Arg Phe Ser Gln Met Leu  
           115                          120                          125  
 His Pro Ile Phe Glu Glu Ala Ser Asp Val Ile Lys Glu Glu Phe Pro  
           130                          135                          140  
 Asn Glu Asn Gln Val Val Phe Ala Arg Val Asp Cys Asp Gln His Ser  
           145                          150                          155                          160  
 Asp Ile Ala Gln Arg Tyr Arg Ile Ser Lys Tyr Pro Thr Leu Lys Leu  
                           165                          170                          175  
 Phe Arg Asn Gly Met Met Met Lys Arg Glu Tyr Arg Gly Gln Arg Ser  
           180                          185                          190  
 Val Lys Ala Leu Ala Asp Tyr Ile Arg Gln Gln Lys Ser Asp Pro Ile  
           195                          200                          205  
 Gln Glu Ile Arg Asp Leu Ala Glu Ile Thr Thr Leu Asp Arg Ser Lys  
           210                          215                          220  
 Arg Asn Ile Ile Gly Tyr Phe Glu Gln Lys Asp Ser Asp Asn Tyr Arg  
           225                          230                          235                          240  
 Val Phe Glu Arg Val Ala Asn Ile Leu His Asp Asp Cys Ala Phe Leu  
                           245                          250                          255  
 Ser Ala Phe Gly Asp Val Ser Lys Pro Glu Arg Tyr Ser Gly Asp Asn  
           260                          265                          270  
 Ile Ile Tyr Lys Pro Pro Gly His Ser Ala Pro Asp Met Val Tyr Leu  
           275                          280                          285

Gly Ala Met Thr Asn Phe Asp Val Thr Tyr Asn Trp Ile Gln Asp Lys  
 290 295 300  
 Cys Val Pro Leu Val Arg Glu Ile Thr Phe Glu Asn Gly Glu Glu Leu  
 305 310 315 320  
 Thr Glu Glu Gly Leu Pro Phe Leu Ile Leu Phe His Met Lys Glu Asp  
 325 330 335  
 Thr Glu Ser Leu Glu Ile Phe Gln Asn Glu Val Ala Arg Gln Leu Ile  
 340 345 350  
 Ser Glu Lys Gly Thr Ile Asn Phe Leu His Ala Asp Cys Asp Lys Phe  
 355 360 365  
 Arg His Pro Leu Leu His Ile Gln Lys Thr Pro Ala Asp Cys Pro Val  
 370 375 380  
 Ile Ala Ile Asp Ser Phe Arg His Met Tyr Val Phe Gly Asp Phe Lys  
 385 390 395 400  
 Asp Val Leu Ile Pro Gly Lys Leu Lys Gln Phe Val Phe Asp Leu His  
 405 410 415  
 Ser Gly Lys Leu His Arg Glu Phe His His Gly Pro Asp Pro Thr Asp  
 420 425 430  
 Thr Ala Pro Gly Glu Gln Ala Gln Asp Val Ala Ser Ser Pro Pro Glu  
 435 440 445  
 Ser Ser Phe Gln Lys Leu Ala Pro Ser Glu Tyr Arg Tyr Thr Leu Leu  
 450 455 460  
 Arg Asp Arg Asp Glu Leu  
 465 470

&lt;210&gt; 1313

&lt;211&gt; 262

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1313

Leu Thr Pro Ser Val Gly Pro Val Phe Pro Gly Arg Pro Thr Arg Pro  
 1 5 10 15  
 Leu Ala Ser Pro Phe Pro Val Pro Leu His Arg Cys Ser Ala Gly Ser  
 20 25 30  
 Gln Pro Pro Gly Pro Val Pro Glu Gly Leu Ile Arg Ile Tyr Ser Met  
 35 40 45  
 Arg Phe Cys Pro Tyr Ser His Arg Thr Arg Leu Val Leu Lys Ala Lys  
 50 55 60  
 Asp Ile Arg His Glu Val Val Asn Ile Asn Leu Arg Asn Lys Pro Glu  
 65 70 75 80  
 Trp Tyr Tyr Thr Lys His Pro Phe Gly His Ile Pro Val Leu Glu Thr  
 85 90 95  
 Ser Gln Cys Gln Leu Ile Tyr Glu Ser Val Ile Ala Cys Glu Tyr Leu  
 100 105 110  
 Asp Asp Ala Tyr Pro Gly Arg Lys Leu Phe Pro Tyr Asp Pro Tyr Glu  
 115 120 125  
 Arg Ala Arg Gln Lys Met Leu Leu Glu Leu Phe Cys Lys Val Pro His  
 130 135 140  
 Leu Thr Lys Glu Cys Leu Val Ala Leu Arg Cys Gly Arg Glu Cys Thr  
 145 150 155 160  
 Asn Leu Lys Ala Ala Leu Arg Gln Glu Phe Ser Asn Leu Glu Glu Ile  
 165 170 175  
 Leu Glu Tyr Gln Asn Thr Thr Phe Phe Gly Gly Thr Cys Ile Ser Met  
 180 185 190  
 Ile Asp Tyr Leu Leu Trp Pro Trp Phe Glu Arg Leu Asp Val Tyr Gly  
 195 200 205  
 Ile Leu Asp Cys Val Ser His Thr Pro Ala Leu Arg Leu Trp Ile Ser  
 210 215 220

Ala Met Lys Trp Asp Pro Thr Val Cys Ala Leu Leu Met Asp Lys Ser  
 225 230 235 240  
 Ile Phe Gln Gly Phe Leu Asn Leu Tyr Phe Gln Asn Asn Pro Asn Ala  
 245 250 255  
 Phe Asp Phe Gly Leu Cys  
 260 262

<210> 1314  
 <211> 173  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1314  
 Asn Thr Ala Thr Asn Met Thr Gln Pro Asn Ala Gly Thr Arg Lys Tyr  
 1 5 10 15  
 Ser Val Pro Ala Ile Ser Val His Thr Ser Ser Ser Ser Phe Ala Tyr  
 20 25 30  
 Asp Arg Glu Phe Leu Arg Thr Leu Pro Gly Phe Leu Ile Val Ala Glu  
 35 40 45  
 Ile Val Leu Gly Leu Leu Val Trp Thr Leu Ile Ala Gly Thr Glu Tyr  
 50 55 60  
 Phe Arg Val Pro Ala Phe Gly Trp Val Met Phe Val Ala Val Phe Tyr  
 65 70 75 80  
 Trp Val Leu Thr Val Phe Phe Leu Ile Ile Tyr Ile Thr Met Thr Tyr  
 85 90 95  
 Thr Arg Ile Pro Gln Val Pro Trp Thr Thr Val Gly Leu Cys Phe Asn  
 100 105 110  
 Gly Ser Ala Phe Val Leu Tyr Leu Ser Ala Ala Val Val Asp Ala Ser  
 115 120 125  
 Ser Val Ser Pro Glu Arg Asp Ser His Asn Phe Asn Ser Trp Ala Ala  
 130 135 140  
 Ser Ser Phe Phe Ala Phe Leu Val Thr Ile Cys Tyr Ala Gly Asn Thr  
 145 150 155 160  
 Tyr Phe Ser Phe Ile Ala Trp Arg Ser Arg Thr Ile Gln  
 165 170 173

<210> 1315  
 <211> 259  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1315  
 Gly Leu Arg Asp Pro Phe Arg Arg Lys Arg Arg Leu Lys Pro Gln Val  
 1 5 10 15  
 Lys Met Ser Asn Tyr Val Asn Asp Met Trp Pro Gly Ser Pro Gln Glu  
 20 25 30  
 Lys Asp Ser Pro Ser Thr Ser Arg Ser Gly Gly Ser Ser Arg Leu Ser  
 35 40 45  
 Ser Arg Ser Arg Ser Arg Ser Phe Ser Arg Ser Ser Arg Ser His Ser  
 50 55 60  
 Arg Val Ser Ser Arg Phe Ser Ser Arg Ser Arg Ser Lys Ser Arg  
 65 70 75 80  
 Ser Arg Ser Arg Arg Arg His Gln Arg Lys Tyr Arg Arg Tyr Ser Arg  
 85 90 95



Ser Tyr Ser Arg Ser Arg Ser Arg Ser Arg Ser Arg Ser Arg Arg Tyr Arg Glu  
                   100                                  105                                  110  
 Arg Arg Tyr Gly Phe Thr Arg Arg Tyr Tyr Arg Ser Pro Ser Arg Tyr  
                   115                                  120                                  125  
 Arg Ser Arg Ser Arg Ser Arg Ser Arg Ser Arg Gly Arg Ser Tyr Cys  
                   130                                  135                                  140  
 Gly Arg Ala Tyr Ala Ile Ala Arg Gly Gln Arg Tyr Tyr Gly Phe Gly  
 145                                  150                                  155                                  160  
 Arg Thr Val Tyr Pro Glu Glu His Ser Arg Trp Arg Asp Arg Ser Arg  
                                   165                                  170                                  175  
 Thr Arg Ser Arg Ser Arg Thr Pro Phe Arg Leu Ser Glu Lys Asp Arg  
                                   180                                  185                                  190  
 Met Glu Leu Leu Glu Ile Ala Lys Thr Asn Ala Ala Lys Ala Leu Gly  
                   195                                  200                                  205  
 Thr Thr Asn Ile Asp Leu Pro Ala Ser Leu Arg Thr Val Pro Ser Ala  
                   210                                  215                                  220  
 Lys Glu Thr Ser Arg Gly Ile Gly Val Ser Ser Asn Gly Ala Lys Pro  
 225                                  230                                  235                                  240  
 Glu Val Ser Ile Leu Gly Leu Ser Glu Gln Asn Phe Gln Lys Ala Asn  
                                   245                                  250                                  255  
 Cys Gln Ile  
                   259

<210> 1316  
 <211> 678  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1316  
 Ala Glu Gly Ser Thr Met Asp Leu Thr Lys Met Gly Met Ile Gln Leu  
 1                                  5                                  10                                  15  
 Gln Asn Pro Asn His Pro Thr Gly Leu Leu Cys Lys Ala Asn Gln Met  
                   20                                  25                                  30  
 Arg Leu Ala Gly Thr Leu Cys Asp Val Val Ile Met Val Asp Ser Gln  
                   35                                  40                                  45  
 Glu Phe His Ala His Arg Thr Val Leu Ala Cys Thr Ser Lys Met Phe  
                   50                                  55                                  60  
 Glu Ile Leu Phe His Arg Asn Ser Gln His Tyr Thr Leu Asp Phe Leu  
                                   70                                  75                                  80  
 Ser Pro Lys Thr Phe Gln Gln Ile Leu Glu Tyr Ala Tyr Thr Ala Thr  
                                   85                                  90                                  95  
 Leu Gln Ala Lys Ala Glu Asp Leu Asp Asp Leu Leu Tyr Ala Ala Glu  
                   100                                  105                                  110  
 Ile Leu Glu Ile Glu Tyr Leu Glu Glu Gln Cys Leu Lys Met Leu Glu  
                   115                                  120                                  125  
 Thr Ile Gln Ala Ser Asp Asp Asn Asp Thr Glu Ala Thr Met Ala Asp  
                   130                                  135                                  140  
 Gly Gly Ala Glu Glu Lys Lys Asp Arg Lys Ala Arg Tyr Leu Lys Asn  
 145                                  150                                  155                                  160  
 Ile Phe Ile Ser Lys His Ser Ser Glu Glu Ser Gly Tyr Ala Ser Val  
                                   165                                  170                                  175  
 Ala Gly Gln Ser Leu Pro Gly Pro Met Val Asp Gln Ser Pro Ser Val  
                   180                                  185                                  190  
 Ser Thr Ser Phe Gly Leu Ser Ala Met Ser Pro Thr Lys Ala Ala Val  
                   195                                  200                                  205  
 Asp Ser Leu Met Thr Ile Gly Gln Ser Leu Leu Gln Gly Thr Leu Gln  
                   210                                  215                                  220  
 Pro Pro Ala Gly Pro Glu Glu Pro Thr Leu Ala Gly Gly Gly Arg His  
 225                                  230                                  235                                  240

Pro Gly Val Ala Glu Val Lys Thr Glu Met Met Gln Val Asp Glu Val  
 245 250 255  
 Pro Ser Gln Asp Ser Pro Gly Ala Ala Glu Ser Ser Ile Ser Gly Gly  
 260 265 270  
 Met Gly Asp Lys Val Glu Glu Arg Gly Lys Glu Gly Pro Gly Thr Pro  
 275 280 285  
 Thr Arg Ser Ser Val Ile Thr Ser Ala Arg Glu Leu His Tyr Gly Arg  
 290 295 300  
 Glu Glu Ser Ala Glu Gln Val Pro Pro Pro Ala Glu Ala Gly Gln Ala  
 305 310 315 320  
 Pro Thr Gly Arg Pro Glu His Pro Ala Pro Pro Pro Glu Lys His Leu  
 325 330 335  
 Gly Ile Tyr Ser Val Leu Pro Asn His Lys Ala Asp Ala Val Leu Ser  
 340 345 350  
 Met Pro Ser Ser Val Thr Ser Gly Leu His Val Gln Pro Ala Leu Ala  
 355 360 365  
 Val Ser Met Asp Phe Ser Thr Tyr Gly Gly Leu Leu Pro Gln Gly Phe  
 370 375 380  
 Ile Gln Arg Glu Leu Phe Ser Lys Leu Gly Glu Leu Ala Val Gly Met  
 385 390 395 400  
 Lys Ser Glu Ser Arg Thr Ile Gly Glu Gln Cys Ser Val Cys Gly Val  
 405 410 415  
 Glu Leu Pro Asp Asn Glu Ala Val Glu Gln His Arg Lys Leu His Ser  
 420 425 430  
 Gly Met Lys Thr Tyr Gly Cys Glu Leu Cys Gly Lys Arg Phe Leu Asp  
 435 440 445  
 Ser Leu Arg Leu Arg Met His Leu Leu Ala His Ser Ala Gly Ala Lys  
 450 455 460  
 Ala Phe Val Cys Asp Gln Cys Gly Ala Gln Phe Ser Lys Glu Asp Ala  
 465 470 475 480  
 Leu Glu Thr His Arg Gln Thr His Thr Gly Thr Asp Met Ala Val Phe  
 485 490 495  
 Cys Leu Leu Cys Gly Lys Arg Phe Gln Ala Gln Ser Ala Leu Gln Gln  
 500 505 510  
 His Met Glu Val His Ala Gly Val Arg Ser Tyr Ile Cys Ser Glu Cys  
 515 520 525  
 Asn Arg Thr Phe Pro Ser His Thr Ala Leu Lys Arg His Leu Arg Ser  
 530 535 540  
 His Thr Gly Asp His Pro Tyr Glu Cys Glu Phe Cys Gly Ser Cys Phe  
 545 550 555 560  
 Arg Asp Glu Ser Thr Leu Lys Ser His Lys Arg Ile His Thr Gly Glu  
 565 570 575  
 Lys Pro Tyr Glu Cys Asn Gly Cys Gly Lys Lys Phe Ser Leu Lys His  
 580 585 590  
 Gln Leu Glu Thr His Tyr Arg Val His Thr Gly Glu Lys Pro Phe Glu  
 595 600 605  
 Cys Lys Leu Cys His Gln Arg Ser Arg Asp Tyr Ser Ala Met Ile Lys  
 610 615 620  
 His Leu Arg Thr His Asn Gly Ala Ser Pro Tyr Gln Cys Thr Ile Cys  
 625 630 635 640  
 Thr Glu Tyr Cys Pro Ser Leu Ser Ser Met Gln Lys His Met Lys Gly  
 645 650 655  
 His Lys Pro Glu Ile Pro Pro Asp Trp Arg Ile Glu Lys Thr Tyr  
 660 665 670  
 Leu Tyr Leu Cys Tyr Val  
 675 678

&lt;210&gt; 1317

&lt;211&gt; 74

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1317

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Ile Trp Glu Ala Pro Thr Leu Ile Phe Thr Leu Ala Gly Gly Arg Ala
 1          5          10          15
Leu Gly His Pro Pro Met Gln Lys Gly Ser Gln Gly Cys Ala Leu Pro
          20          25          30
His Pro Leu Pro Gly Ala Ser Leu Pro Ala Gln Pro Gly Pro Ala Asp
          35          40          45
His Arg Gly Trp Glu Cys Arg Ile Gly Gly Glu Ala Ser Val Phe Thr
          50          55          60
His Leu Phe Cys Leu Pro His Ser Pro Thr
 65          70          74

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&lt;210&gt; 1318

&lt;211&gt; 351

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1318

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Ala Ser Gly Ser Pro Ala Pro Ser Ser Ser Ser Ala Met Ala Ala Ala
 1          5          10          15
Cys Gly Pro Gly Ala Ala Gly Tyr Cys Leu Leu Leu Gly Leu His Leu
          20          25          30
Phe Leu Leu Thr Ala Gly Pro Ala Leu Gly Trp Asn Asp Pro Asp Arg
          35          40          45
Met Leu Leu Arg Asp Val Lys Ala Leu Thr Leu His Tyr Asp Arg Tyr
          50          55          60
Thr Thr Ser Arg Arg Leu Asp Pro Ile Pro Gln Leu Lys Cys Val Gly
          65          70          75          80
Gly Thr Ala Gly Cys Asp Ser Tyr Thr Pro Lys Val Ile Gln Cys Gln
          85          90          95
Asn Lys Gly Trp Asp Gly Tyr Asp Val Gln Trp Glu Cys Lys Thr Asp
          100          105          110
Leu Asp Ile Ala Tyr Lys Phe Gly Lys Thr Val Val Ser Cys Glu Gly
          115          120          125
Tyr Glu Ser Ser Glu Asp Gln Tyr Val Leu Arg Gly Ser Cys Gly Leu
          130          135          140
Glu Tyr Asn Leu Asp Tyr Thr Glu Leu Gly Leu Gln Lys Leu Lys Glu
          145          150          155          160
Ser Gly Lys Gln His Gly Phe Ala Ser Phe Ser Asp Tyr Tyr Tyr Lys
          165          170          175
Trp Ser Ser Ala Asp Ser Cys Asn Met Ser Gly Leu Ile Thr Ile Val
          180          185          190
Val Leu Leu Gly Ile Ala Phe Val Val Tyr Lys Leu Phe Leu Ser Asp
          195          200          205
Gly Gln Tyr Ser Pro Pro Pro Tyr Ser Glu Tyr Pro Pro Phe Ser His
          210          215          220
Arg Tyr Gln Arg Phe Thr Asn Ser Ala Gly Pro Pro Pro Gly Phe
          225          230          235          240
Lys Ser Glu Phe Thr Gly Pro Gln Asn Thr Gly His Gly Ala Thr Ser
          245          250          255
Gly Phe Gly Ser Ala Phe Thr Gly Gln Gln Gly Tyr Glu Asn Ser Gly
          260          265          270
Pro Gly Phe Trp Thr Gly Leu Gly Thr Gly Gly Ile Leu Gly Tyr Leu
          275          280          285
Phe Gly Ser Asn Arg Ala Ala Thr Pro Phe Ser Asp Ser Trp Tyr Tyr
          290          295          300

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Pro Ser Tyr Pro Pro Ser Tyr Pro Gly Thr Trp Asn Arg Ala Tyr Ser  
 305 310 315 320  
 Pro Leu His Gly Gly Ser Gly Ser Tyr Ser Val Cys Ser Asn Ser Asp  
 325 330 335  
 Thr Lys Thr Arg Thr Ala Ser Gly Tyr Gly Gly Thr Arg Arg Arg  
 340 345 350 351

<210> 1319  
 <211> 310  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1319  
 Gly Arg Cys Gly Ala Met Ala Ala Gly Leu Ala Arg Leu Leu Leu Leu  
 1 5 10 15  
 Leu Gly Leu Ser Ala Gly Gly Pro Ala Pro Ala Gly Ala Ala Lys Met  
 20 25 30  
 Lys Val Val Glu Glu Pro Asn Ala Phe Gly Val Asn Asn Pro Phe Leu  
 35 40 45  
 Pro Gln Ala Ser Arg Leu Gln Ala Lys Arg Asp Pro Ser Pro Val Ser  
 50 55 60  
 Gly Pro Val His Leu Phe Arg Leu Ser Gly Lys Cys Phe Ser Leu Val  
 65 70 75 80  
 Glu Ser Thr Tyr Lys Tyr Glu Phe Cys Pro Phe His Asn Val Thr Gln  
 85 90 95  
 His Glu Gln Thr Phe Arg Trp Asn Ala Tyr Ser Gly Ile Leu Gly Ile  
 100 105 110  
 Trp His Glu Trp Glu Ile Ala Asn Asn Thr Phe Thr Gly Met Trp Met  
 115 120 125  
 Arg Asp Gly Asp Ala Cys Arg Ser Arg Ser Arg Gln Ser Lys Val Glu  
 130 135 140  
 Leu Ala Cys Gly Lys Ser Asn Arg Leu Ala His Val Ser Glu Pro Ser  
 145 150 155 160  
 Thr Cys Val Tyr Ala Leu Thr Phe Glu Thr Pro Leu Val Cys His Pro  
 165 170 175  
 His Ala Leu Leu Val Tyr Pro Thr Leu Pro Glu Ala Leu Gln Arg Gln  
 180 185 190  
 Trp Asp Gln Val Glu Gln Asp Leu Ala Asp Glu Leu Ile Thr Pro Gln  
 195 200 205  
 Gly His Glu Lys Leu Leu Arg Thr Leu Phe Glu Asp Ala Gly Tyr Leu  
 210 215 220  
 Lys Thr Pro Glu Glu Asn Glu Pro Thr Gln Leu Glu Gly Gly Pro Asp  
 225 230 235 240  
 Ser Leu Gly Phe Glu Thr Leu Glu Asn Cys Arg Lys Ala His Lys Glu  
 245 250 255  
 Leu Ser Lys Glu Ile Lys Arg Leu Lys Gly Leu Leu Thr Gln His Gly  
 260 265 270  
 Ile Pro Tyr Thr Arg Pro Thr Glu Thr Ser Asn Leu Glu His Leu Gly  
 275 280 285  
 His Glu Thr Pro Arg Ala Lys Ser Pro Glu Gln Leu Arg Gly Asp Pro  
 290 295 300  
 Gly Leu Arg Gly Ser Leu  
 305 310

<210> 1320  
 <211> 313  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1320

Asn	Ser	Phe	Trp	Ser	Val	Leu	Phe	Leu	Val	Gln	Glu	Glu	Thr	Glu	Val
1				5					10					15	
Ala	Arg	Cys	Asn	Ala	Gln	His	Arg	Leu	Arg	Gln	Ser	Arg	Asp	Ser	Lys
			20					25					30		
Pro	Asp	Pro	Ser	Phe	Arg	Ser	Gln	Pro	Ile	Asp	Ser	Ser	Ile	Ser	Phe
		35					40					45			
Ala	Gly	Ser	Asp	Ile	Gln	Pro	Leu	Phe	Ser	Phe	Ala	Ser	Val	Asp	Gly
	50					55				60					
Thr	Gln	Val	Gly	Glu	Ala	Glu	Glu	Trp	Ala	Gly	Pro	Trp	Ala	Glu	Ala
	65				70					75				80	
Thr	Leu	Leu	Pro	Gly	Pro	Gly	Asn	Arg	Trp	Pro	Pro	Arg	Ala	Gly	Leu
				85					90					95	
Ser	Gly	Asn	Trp	Leu	Glu	Glu	Asp	Gly	Asp	Trp	Pro	Ser	Leu	Pro	Glu
			100					105					110		
Val	Val	Gly	Phe	Val	Ser	Glu	Arg	Glu	Leu	Phe	Arg	Asp	Ala	Leu	Gly
		115					120					125			
Ala	Gly	Cys	Arg	Ile	Leu	Leu	Ile	Cys	Glu	Met	Gln	Leu	Thr	His	Gln
	130					135					140				
Leu	Asp	Leu	Phe	Pro	Glu	Cys	Arg	Val	Thr	Leu	Leu	Leu	Phe	Lys	Asp
	145				150					155				160	
Val	Lys	Asn	Ala	Gly	Asp	Leu	Arg	Arg	Lys	Ala	Met	Glu	Gly	Thr	Ile
			165						170					175	
Asp	Gly	Ser	Leu	Ile	Asn	Pro	Thr	Val	Ile	Val	Asp	Pro	Phe	Gln	Ile
			180					185					190		
Leu	Val	Ala	Ala	Asn	Lys	Ala	Val	His	Leu	Tyr	Lys	Leu	Gly	Lys	Met
		195					200					205			
Lys	Thr	Arg	Thr	Leu	Ser	Thr	Glu	Ile	Ile	Phe	Asn	Leu	Ser	Pro	Asn
	210					215					220				
Asn	Asn	Ile	Ser	Glu	Ala	Leu	Lys	Lys	Phe	Gly	Ile	Ser	Ala	Asn	Asp
	225				230					235				240	
Thr	Ser	Ile	Leu	Ile	Val	Tyr	Ile	Glu	Glu	Gly	Glu	Lys	Gln	Ile	Asn
			245						250					255	
Gln	Glu	Tyr	Leu	Ile	Ser	Gln	Val	Glu	Gly	His	Gln	Val	Ser	Leu	Lys
			260					265					270		
Asn	Leu	Pro	Glu	Ile	Met	Asn	Ile	Thr	Glu	Val	Lys	Lys	Ile	Tyr	Lys
		275					280					285			
Leu	Ser	Ser	Gln	Glu	Glu	Ser	Ile	Gly	Thr	Leu	Leu	Asp	Ala	Ile	Ile
	290					295					300				
Cys	Arg	Met	Ser	Thr	Lys	Asp	Val	Leu							
305					310			313							

<210> 1321

<211> 891

<212> Amino acid

<213> Homo sapiens

<400> 1321

Gln	Arg	Ser	Trp	Ala	Gly	Pro	Gly	Ala	Gly	Pro	Glu	Ala	Gly	Thr	Arg
1				5					10					15	
Pro	Pro	Ala	Arg	Gly	Arg	Arg	Arg	Gln	Pro	Gly	Asn	Val	Asp	Pro	Arg
			20					25					30		
Arg	Arg	Ala	Pro	Gln	Leu	Arg	Ser	Gln	Met	Gln	Val	Ala	Met	Ala	Arg
		35					40					45			

Ala Thr Thr Ala Thr Gly Asn Arg Leu Trp Pro Gly Leu Leu Ile Met  
 50 55 60  
 Leu Gly Ser Leu Cys His Arg Gly Ser Pro Cys Gly Leu Ser Thr His  
 65 70 75 80  
 Ile Glu Ile Gly His Arg Ala Leu Glu Phe Leu Gln Leu His Asn Gly  
 85 90 95  
 Arg Val Asn Tyr Arg Glu Leu Leu Leu Glu His Gln Asp Ala Tyr Gln  
 100 105 110  
 Ala Gly Ile Val Phe Pro Asp Cys Phe Tyr Pro Ser Ile Cys Lys Gly  
 115 120 125  
 Gly Lys Phe His Asp Val Ser Glu Ser Thr His Trp Thr Pro Phe Leu  
 130 135 140  
 Asn Ala Ser Val His Tyr Ile Arg Glu Asn Tyr Pro Leu Pro Trp Glu  
 145 150 155 160  
 Lys Asp Thr Glu Lys Leu Val Ala Phe Leu Phe Gly Ile Thr Ser His  
 165 170 175  
 Met Ala Ala Asp Val Ser Trp His Ser Leu Gly Leu Glu Gln Gly Phe  
 180 185 190  
 Leu Arg Thr Met Gly Ala Ile Asp Phe His Gly Ser Tyr Ser Glu Ala  
 195 200 205  
 His Ser Ala Gly Asp Phe Gly Gly Asp Val Leu Ser Gln Phe Glu Phe  
 210 215 220  
 Asn Phe Asn Tyr Leu Ala Arg Arg Trp Tyr Val Pro Val Lys Asp Leu  
 225 230 235 240  
 Leu Gly Ile Tyr Glu Lys Leu Tyr Gly Arg Lys Val Ile Thr Glu Asn  
 245 250 255  
 Val Ile Val Asp Cys Ser His Ile Gln Phe Leu Glu Met Tyr Gly Glu  
 260 265 270  
 Met Leu Ala Val Ser Lys Leu Tyr Pro Thr Tyr Ser Thr Lys Ser Pro  
 275 280 285  
 Phe Leu Val Glu Gln Phe Gln Glu Tyr Phe Leu Gly Gly Leu Asp Asp  
 290 295 300  
 Met Ala Phe Trp Ser Thr Asn Ile Tyr His Leu Thr Ile Phe Met Leu  
 305 310 315 320  
 Glu Asn Gly Thr Ser Asp Cys Asn Leu Pro Glu Asn Pro Leu Phe Ile  
 325 330 335  
 Ala Cys Gly Gly Gln Gln Asn His Thr Gln Gly Ser Lys Met Gln Lys  
 340 345 350  
 Asn Asp Phe His Arg Asn Leu Thr Thr Ser Leu Thr Glu Ser Val Asp  
 355 360 365  
 Arg Asn Ile Asn Tyr Thr Glu Arg Gly Val Phe Phe Ser Val Asn Ser  
 370 375 380  
 Trp Thr Pro Asp Ser Met Ser Phe Ile Tyr Lys Ala Leu Glu Arg Asn  
 385 390 395 400  
 Ile Arg Thr Met Phe Ile Gly Gly Ser Gln Leu Ser Gln Lys His Val  
 405 410 415  
 Ser Ser Pro Leu Ala Ser Tyr Phe Leu Ser Phe Pro Tyr Ala Arg Leu  
 420 425 430  
 Gly Trp Ala Met Thr Ser Ala Asp Leu Asn Gln Asp Gly His Gly Asp  
 435 440 445  
 Leu Val Val Gly Ala Pro Gly Tyr Ser Arg Pro Gly His Ile His Ile  
 450 455 460  
 Gly Arg Val Tyr Leu Ile Tyr Gly Asn Asp Leu Gly Leu Pro Pro Val  
 465 470 475 480  
 Asp Leu Asp Leu Asp Lys Glu Ala His Arg Ile Leu Glu Gly Phe Gln  
 485 490 495  
 Pro Ser Gly Arg Phe Gly Ser Ala Leu Ala Val Leu Asp Phe Asn Val  
 500 505 510  
 Asp Gly Val Pro Asp Leu Ala Val Gly Ala Pro Ser Val Gly Ser Glu  
 515 520 525  
 Gln Leu Thr Tyr Lys Gly Ala Val Tyr Val Tyr Phe Gly Ser Lys Gln  
 530 535 540  
 Gly Gly Met Ser Ser Ser Pro Asn Ile Thr Ile Ser Cys Gln Asp Ile  
 545 550 555 560

```
<210> 1322
<211> 119
<212> Amino acid
<213> Homo sapiens
```

823

Glu Gly Leu Arg Asn Ala Leu Gln Gln Glu Asn His Ile Ile Asp Gly  
                     85                    90                    95  
 Val Lys Val Gln Val His Thr Arg Arg Pro Lys Leu Pro Gln Thr Ser  
                     100                    105                    110  
 Asp Asp Glu Lys Lys Asp Phe  
                     115                    119

<210> 1323  
 <211> 257  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1323  
 Gly Ser Ser Asn Ile His Ser Ala Ser Thr His Gly Phe Cys His Trp  
   1                    5                    10                    15  
 Phe Ser Ser Pro Ser Thr Leu Lys Arg Gln Lys Gln Ala Ile Arg Phe  
                     20                    25                    30  
 Gln Lys Ile Arg Arg Gln Met Glu Ala Pro Gly Ala Pro Pro Arg Thr  
                     35                    40                    45  
 Leu Thr Trp Glu Ala Met Glu Gln Ile Arg Tyr Leu His Glu Glu Phe  
                     50                    55                    60  
 Pro Glu Ser Trp Ser Val Pro Arg Leu Ala Glu Gly Phe Asp Val Ser  
                     65                    70                    75                    80  
 Thr Asp Val Ile Arg Arg Val Leu Lys Ser Lys Phe Leu Pro Thr Leu  
                     85                    90                    95  
 Glu Gln Lys Leu Lys Gln Asp Gln Lys Val Leu Lys Lys Ala Gly Leu  
                     100                    105                    110  
 Ala His Ser Leu Gln His Leu Arg Gly Ser Gly Asn Thr Ser Lys Leu  
                     115                    120                    125  
 Leu Pro Ala Gly His Ser Val Ser Gly Ser Leu Leu Met Pro Gly His  
                     130                    135                    140  
 Glu Ala Ser Ser Lys Asp Pro Asn His Ser Thr Ala Leu Lys Val Ile  
  145                    150                    155                    160  
 Glu Ser Asp Thr His Arg Thr Asn Thr Pro Arg Arg Arg Lys Gly Arg  
                     165                    170                    175  
 Asn Lys Glu Ile Gln Asp Leu Glu Glu Ser Phe Val Pro Val Ala Ala  
                     180                    185                    190  
 Pro Leu Gly His Pro Arg Glu Leu Gln Lys Tyr Ser Ser Asp Ser Glu  
                     195                    200                    205  
 Ser Pro Arg Gly Thr Gly Ser Gly Ala Leu Pro Ser Gly Gln Lys Leu  
                     210                    215                    220  
 Glu Glu Leu Lys Ala Glu Glu Pro Asp Asn Phe Ser Ser Lys Val Val  
  225                    230                    235                    240  
 Gln Arg Gly Arg Glu Phe Phe Asp Ser Asn Gly Asn Phe Leu Tyr Arg  
                     245                    250                    255  
 Ile  
 257

<210> 1324  
 <211> 273  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1324



Glu Thr Arg Val Lys Thr Ser Leu Glu Leu Leu Arg Thr Gln Leu Glu  
 1 5 10 15  
 Pro Thr Gly Thr Val Gly Asn Thr Ile Met Thr Ser Gln Pro Val Pro  
 20 25 30  
 Asn Glu Thr Ile Ile Val Leu Pro Ser Asn Val Ile Asn Phe Ser Gln  
 35 40 45  
 Ala Glu Lys Pro Glu Pro Thr Asn Gln Gly Gln Asp Ser Leu Lys Lys  
 50 55 60  
 His Leu His Ala Glu Ile Lys Val Ile Gly Thr Ile Gln Ile Leu Cys  
 65 70 75 80  
 Gly Met Met Val Leu Ser Leu Gly Ile Ile Leu Ala Ser Ala Ser Phe  
 85 90 95  
 Ser Pro Asn Phe Thr Gln Val Thr Ser Thr Leu Leu Asn Ser Ala Tyr  
 100 105 110  
 Pro Phe Ile Gly Pro Phe Phe Phe Ile Ile Ser Gly Ser Leu Ser Ile  
 115 120 125  
 Ala Thr Glu Lys Arg Leu Thr Lys Leu Leu Val His Ser Ser Leu Val  
 130 135 140  
 Gly Ser Ile Leu Ser Ala Leu Ser Ala Leu Val Gly Phe Ile Ile Leu  
 145 150 155 160  
 Ser Val Lys Gln Ala Thr Leu Asn Pro Ala Ser Leu Gln Cys Glu Leu  
 165 170 175  
 Asp Lys Asn Asn Ile Pro Thr Arg Ser Tyr Val Ser Tyr Phe Tyr His  
 180 185 190  
 Asp Ser Leu Tyr Thr Thr Asp Cys Tyr Thr Ala Lys Ala Ser Leu Ala  
 195 200 205  
 Gly Thr Leu Ser Leu Met Leu Ile Cys Thr Leu Leu Glu Phe Cys Leu  
 210 215 220  
 Ala Val Leu Thr Ala Val Leu Arg Trp Lys Gln Ala Tyr Ser Asp Phe  
 225 230 235 240  
 Pro Gly Ser Val Leu Phe Leu Pro His Ser Tyr Ile Gly Asn Ser Gly  
 245 250 255  
 Met Ser Ser Lys Met Thr His Asp Cys Gly Tyr Glu Glu Leu Leu Thr  
 260 265 270  
 Ser  
 273

&lt;210&gt; 1325

&lt;211&gt; 477

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1325

Glu Met Val Gly Ala Met Trp Lys Val Ile Val Ser Leu Val Leu Leu  
 1 5 10 15  
 Met Pro Gly Pro Cys Asp Gly Leu Phe Arg Ser Leu Tyr Arg Ser Val  
 20 25 30  
 Ser Met Pro Pro Lys Gly Asp Ser Gly Gln Pro Leu Phe Leu Thr Pro  
 35 40 45  
 Tyr Ile Glu Ala Gly Lys Ile Gln Lys Gly Arg Glu Leu Ser Leu Val  
 50 55 60  
 Gly Pro Phe Pro Gly Leu Asn Met Lys Ser Tyr Ala Gly Phe Leu Thr  
 65 70 75 80  
 Val Asn Lys Thr Tyr Asn Ser Asn Leu Phe Phe Trp Phe Phe Pro Ala  
 85 90 95  
 Gln Ile Gln Pro Glu Asp Ala Pro Val Val Leu Trp Leu Gln Gly Gly  
 100 105 110  
 Pro Gly Gly Ser Ser Met Phe Gly Leu Phe Val Glu His Gly Pro Tyr  
 115 120 125

Val Val Thr Ser Asn Met Thr Leu Arg Asp Arg Asp Phe Pro Trp Thr  
 130 135 140  
 Thr Thr Leu Ser Met Leu Tyr Ile Asp Asn Pro Val Gly Thr Gly Phe  
 145 150 155 160  
 Ser Phe Thr Asp Asp Thr His Gly Tyr Ala Val Asn Glu Asp Asp Val  
 165 170 175  
 Ala Arg Asp Leu Tyr Ser Ala Leu Ile Gln Phe Phe Gln Ile Phe Pro  
 180 185 190  
 Glu Tyr Lys Asn Asn Asp Phe Tyr Val Thr Gly Glu Ser Tyr Ala Gly  
 195 200 205  
 Lys Tyr Val Pro Ala Ile Ala His Leu Ile His Ser Leu Asn Pro Val  
 210 215 220  
 Arg Glu Val Lys Ile Asn Leu Asn Gly Ile Ala Ile Gly Asp Gly Tyr  
 225 230 235 240  
 Ser Asp Pro Glu Ser Ile Ile Gly Gly Tyr Ala Glu Phe Leu Tyr Gln  
 245 250 255  
 Ile Gly Leu Leu Asp Glu Lys Gln Lys Lys Tyr Phe Gln Lys Gln Cys  
 260 265 270  
 His Glu Cys Ile Glu His Ile Arg Lys Gln Asn Trp Phe Glu Ala Phe  
 275 280 285  
 Glu Ile Leu Asp Lys Leu Leu Asp Gly Asp Leu Thr Ser Asp Pro Ser  
 290 295 300  
 Tyr Phe Gln Asn Val Thr Gly Cys Ser Asn Tyr Tyr Asn Phe Leu Arg  
 305 310 315 320  
 Cys Thr Glu Pro Glu Asp Gln Leu Tyr Tyr Val Lys Phe Leu Ser Leu  
 325 330 335  
 Pro Glu Val Arg Gln Ala Ile His Val Gly Asn Gln Thr Phe Asn Asp  
 340 345 350  
 Gly Thr Ile Val Glu Lys Tyr Leu Arg Glu Asp Thr Val Gln Ser Val  
 355 360 365  
 Lys Pro Trp Leu Thr Glu Ile Met Asn Asn Tyr Lys Val Leu Ile Tyr  
 370 375 380  
 Asn Gly Gln Leu Asp Ile Ile Val Ala Ala Ala Leu Thr Glu Arg Ser  
 385 390 395 400  
 Leu Met Gly Met Asp Trp Lys Gly Ser Gln Glu Tyr Lys Lys Ala Glu  
 405 410 415  
 Lys Lys Val Trp Lys Ile Phe Lys Ser Asp Ser Glu Val Ala Gly Tyr  
 420 425 430  
 Ile Arg Gln Ala Gly Asp Phe His Gln Val Ile Ile Arg Gly Gly Gly  
 435 440 445  
 His Ile Leu Pro Tyr Asp Gln Pro Leu Arg Ala Phe Asp Met Ile Asn  
 450 455 460  
 Arg Phe Ile Tyr Gly Lys Gly Trp Asp Pro Tyr Val Gly  
 465 470 475 477

&lt;210&gt; 1326

&lt;211&gt; 160

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1326

Arg Asp Glu Arg Ala Lys Val Pro Phe Arg Ser Thr Glu Gly Gly Arg  
 1 5 10 15  
 Arg Arg Arg Arg Arg Met Glu Ala Val Val Phe Val Phe Ser Leu Leu  
 20 25 30  
 Asp Cys Cys Ala Leu Ile Phe Leu Ser Val Tyr Phe Ile Ile Thr Leu  
 35 40 45  
 Ser Asp Leu Glu Cys Asp Tyr Ile Asn Ala Arg Ser Cys Cys Ser Lys  
 50 55 60

```

Leu Asn Lys Trp Val Ile Pro Glu Leu Ile Gly His Thr Ile Val Thr
 65              70              75              80
Val Leu Leu Leu Met Ser Leu His Trp Phe Ile Phe Leu Leu Asn Leu
              85              90              95
Pro Val Ala Thr Trp Asn Ile Tyr Arg Tyr Ile Met Val Pro Ser Gly
              100             105             110
Asn Met Gly Val Phe Asp Pro Thr Glu Ile His Asn Arg Gly Gln Leu
              115             120             125
Lys Ser His Met Lys Glu Ala Met Ile Lys Leu Gly Phe His Leu Leu
              130             135             140
Cys Phe Phe Met Tyr Leu Tyr Ser Met Ile Leu Ala Leu Ile Asn Asp
145              150              155              160

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<210> 1327
<211> 131
<212>Amino acid
<213> Homo sapiens

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```

<400> 1327
Gln Ser Pro Gly His Gly Ala Pro Cys Gln Leu Ser Ser Ser His Ser
 1              5              10              15
Arg Ser Asn Arg Leu Leu Ser Pro Met Ala Arg Ala Thr Leu Ser Ala
              20              25              30
Ala Pro Ser Asn Pro Arg Leu Leu Arg Val Ala Leu Leu Leu Leu Leu
              35              40              45
Leu Val Ala Ala Ser Arg Arg Ala Ala Gly Ala Pro Leu Ala Thr Glu
              50              55              60
Leu Arg Cys Gln Cys Leu Gln Thr Leu Gln Gly Ile His Leu Lys Asn
              65              70              75              80
Ile Gln Ser Val Lys Val Lys Ser Pro Gly Pro His Cys Ala Gln Thr
              85              90              95
Glu Val Ile Ala Thr Leu Lys Asn Gly Gln Lys Ala Cys Leu Asn Pro
              100             105             110
Ala Ser Pro Met Val Lys Lys Ile Ile Glu Lys Met Leu Lys Asn Gly
              115             120             125
Lys Ser Asn
130 131

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<210> 1328
<211> 44
<212>Amino acid
<213> Homo sapiens

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```

<400> 1328
His Pro Leu Ser Leu Val Phe Leu Ala Leu Asn Thr Gly Lys Glu Lys
 1              5              10              15
Ser His Pro Gly Gly Gly Glu Arg Pro Gly Leu Ala Gly Gln Gly
              20              25              30
Glu Pro Asp His Pro Ala Gly Ala Arg Asp Gly Arg
              35              40              44

```

<210> 1329  
 <211> 525  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1329  
 Cys Thr Pro Val Ala Arg Ser Met Ala Thr Thr Ala Thr Cys Thr Arg  
 1 5 10 15  
 Phe Thr Asp Asp Tyr Gln Leu Phe Glu Glu Leu Gly Lys Gly Ala Phe  
 20 25 30  
 Ser Val Val Arg Arg Cys Val Lys Lys Thr Ser Thr Gln Glu Tyr Ala  
 35 40 45  
 Ala Lys Ile Ile Asn Thr Lys Lys Leu Ser Ala Arg Asp His Gln Lys  
 50 55 60  
 Leu Glu Arg Glu Ala Arg Ile Cys Arg Leu Leu Lys His Pro Asn Ile  
 65 70 75 80  
 Val Arg Leu His Asp Ser Ile Ser Glu Glu Gly Phe His Tyr Leu Val  
 85 90 95  
 Phe Asp Leu Val Thr Gly Gly Glu Leu Phe Glu Asp Ile Val Ala Arg  
 100 105 110  
 Glu Tyr Tyr Ser Glu Ala Asp Ala Ser His Cys Ile His Gln Ile Leu  
 115 120 125  
 Glu Ser Val Asn His Ile His Gln His Asp Ile Val His Arg Asp Leu  
 130 135 140  
 Lys Pro Glu Asn Leu Leu Leu Ala Ser Lys Cys Lys Gly Ala Ala Val  
 145 150 155 160  
 Lys Leu Ala Asp Phe Gly Leu Ala Ile Glu Val Gln Gly Glu Gln Gln  
 165 170 175  
 Ala Trp Phe Gly Phe Ala Gly Thr Pro Gly Tyr Leu Ser Pro Glu Val  
 180 185 190  
 Leu Arg Lys Asp Pro Tyr Gly Lys Pro Val Asp Ile Trp Ala Cys Gly  
 195 200 205  
 Val Ile Leu Tyr Ile Leu Leu Val Gly Tyr Pro Pro Phe Trp Asp Glu  
 210 215 220  
 Asp Gln His Lys Leu Tyr Gln Gln Ile Lys Ala Gly Ala Tyr Asp Phe  
 225 230 235 240  
 Pro Ser Pro Glu Trp Asp Thr Val Thr Pro Glu Ala Lys Asn Leu Ile  
 245 250 255  
 Asn Gln Met Leu Thr Ile Asn Pro Ala Lys Arg Ile Thr Ala Asp Gln  
 260 265 270  
 Ala Leu Lys His Pro Trp Val Cys Gln Arg Ser Thr Val Ala Ser Met  
 275 280 285  
 Met His Arg Gln Glu Thr Val Glu Cys Leu Arg Lys Phe Asn Ala Arg  
 290 295 300  
 Arg Lys Leu Lys Gly Ala Ile Leu Thr Thr Met Leu Val Ser Arg Asn  
 305 310 315 320  
 Phe Ser Ala Ala Lys Ser Leu Leu Asn Lys Lys Ser Asp Gly Gly Val  
 325 330 335  
 Lys Pro Gln Ser Asn Asn Lys Asn Ser Leu Val Ser Pro Ala Gln Glu  
 340 345 350  
 Pro Ala Pro Leu Gln Thr Ala Met Glu Pro Gln Thr Thr Val Val His  
 355 360 365  
 Asn Ala Thr Asp Gly Ile Lys Gly Ser Thr Glu Ser Cys Asn Thr Thr  
 370 375 380  
 Thr Glu Asp Glu Asp Leu Lys Val Arg Lys Gln Glu Ile Ile Lys Ile  
 385 390 395 400  
 Thr Glu Gln Leu Ile Glu Ala Ile Asn Asn Gly Asp Phe Glu Ala Tyr  
 405 410 415  
 Thr Lys Ile Cys Asp Pro Gly Leu Thr Ser Phe Glu Pro Glu Ala Leu  
 420 425 430

Gly Asn Leu Val Glu Gly Met Asp Phe His Lys Phe Tyr Phe Glu Asn  
 435 440 445  
 Leu Leu Ser Lys Asn Ser Lys Pro Ile His Thr Thr Ile Leu Asn Pro  
 450 455 460  
 His Val His Val Ile Gly Glu Asp Ala Ala Cys Ile Ala Tyr Ile Arg  
 465 470 475 480  
 Leu Thr Gln Tyr Ile Asp Gly Gln Gly Arg Pro Arg Thr Ser Gln Ser  
 485 490 495  
 Glu Glu Thr Arg Val Trp His Arg Arg Asp Gly Lys Trp Leu Asn Val  
 500 505 510  
 His Tyr His Cys Ser Gly Ala Pro Ala Ala Pro Leu Gln  
 515 520 525

&lt;210&gt; 1330

&lt;211&gt; 205

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1330

Asn Arg Arg Thr Val Lys Met Leu Leu Glu Leu Ser Glu Glu His Lys  
 1 5 10 15  
 Glu His Leu Ala Phe Leu Pro Gln Val Asp Ser Ala Val Val Ala Glu  
 20 25 30  
 Phe Gly Arg Ile Ala Val Glu Phe Leu Arg Arg Gly Ala Asn Pro Lys  
 35 40 45  
 Ile Tyr Glu Gly Ala Ala Arg Lys Leu Asn Val Ser Ser Asp Thr Val  
 50 55 60  
 Gln His Gly Val Glu Gly Leu Thr Tyr Leu Leu Thr Glu Ser Ser Lys  
 65 70 75 80  
 Leu Met Ile Ser Glu Leu Asp Phe Gln Asp Ser Val Phe Val Leu Gly  
 85 90 95  
 Phe Ser Glu Glu Leu Asn Lys Leu Leu Leu Gln Leu Tyr Leu Asp Asn  
 100 105 110  
 Arg Lys Glu Ile Arg Thr Ile Leu Ser Glu Leu Ala Pro Ser Leu Pro  
 115 120 125  
 Ser Tyr His Asn Leu Glu Trp Arg Leu Asp Val Gln Leu Ala Ser Arg  
 130 135 140  
 Ser Leu Arg Gln Gln Ile Lys Pro Ala Val Thr Ile Lys Leu His Leu  
 145 150 155 160  
 Asn Gln Asn Gly Asp His Asn Thr Lys Val Leu Gln Thr Asp Pro Ala  
 165 170 175  
 Thr Leu Leu His Leu Val Gln Gln Leu Glu Gln Ala Leu Glu Glu Met  
 180 185 190  
 Lys Thr Asn His Cys Arg Arg Val Val Arg Asn Ile Lys  
 195 200 205

&lt;210&gt; 1331

&lt;211&gt; 78

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1331

Gly Thr Ser Ile Tyr Leu Ala His Arg Val Ala Arg Ala Trp Glu Leu  
 1 5 10 15

Ala Gln Phe Ile His His Thr Ser Lys Lys Ala Asp Val Val Leu Ala  
                   20                  25                  30  
 Cys Gly Asp Ser Ile Val His Pro Glu Asp Leu Ile Cys Cys Pro Leu  
                   35                  40                  45  
 Thr Gly Arg Ser Cys Leu Cys Asp Val His Leu Leu Ser Ser Leu Leu  
                   50                  55                  60  
 Ala Arg Leu Gly Arg Gly Tyr Ala Val Ser Leu Thr Asn Leu  
                   65                  70                  75                  78

<210> 1332  
 <211> 274  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1332  
 Arg Gly Cys Gly Ser Cys Gly Tyr Lys Pro Ser Ala Gly Pro Ala Trp  
   1                  5                  10                  15  
 Arg Pro Arg Pro Pro Pro Ala Val Ser Pro Leu Arg His Pro Glu Pro  
                   20                  25                  30  
 Ala Lys Val Leu Ser Phe Ser Ser Cys Pro Leu Pro Ala Leu Gly Arg  
                   35                  40                  45  
 Thr Gly Pro Ser Arg Ala Ala Arg Ala Gln Ser Leu Thr Met Ala Ser  
                   50                  55                  60  
 Leu Phe Lys Lys Lys Thr Val Asp Asp Val Ile Lys Glu Gln Asn Arg  
                   65                  70                  75                  80  
 Glu Leu Arg Gly Thr Gln Arg Ala Ile Ile Arg Asp Arg Ala Ala Leu  
                   85                  90                  95  
 Glu Lys Gln Glu Lys Gln Leu Glu Leu Glu Ile Lys Lys Met Ala Lys  
                   100                  105                  110  
 Ile Gly Asn Lys Glu Ala Cys Lys Val Leu Ala Lys Gln Leu Val His  
                   115                  120                  125  
 Leu Arg Lys Gln Lys Thr Arg Thr Phe Ala Val Ser Ser Lys Val Thr  
                   130                  135                  140  
 Ser Met Ser Thr Gln Thr Lys Val Met Asn Ser Gln Met Lys Met Ala  
                   145                  150                  155                  160  
 Gly Ala Met Ser Thr Thr Ala Lys Thr Met Gln Ala Val Asn Lys Lys  
                   165                  170                  175  
 Met Asp Pro Gln Lys Thr Leu Gln Thr Met Gln Asn Phe Gln Lys Glu  
                   180                  185                  190  
 Asn Met Lys Met Glu Met Thr Glu Glu Met Ile Asn Asp Thr Leu Asp  
                   195                  200                  205  
 Asp Ile Phe Asp Gly Ser Asp Asp Glu Glu Glu Ser Gln Asp Ile Val  
                   210                  215                  220  
 Asn Gln Val Leu Asp Glu Ile Gly Ile Glu Ile Ser Gly Lys Met Ala  
                   225                  230                  235                  240  
 Lys Ala Pro Ser Ala Ala Arg Ser Leu Pro Ser Ala Ser Thr Ser Lys  
                   245                  250                  255  
 Ala Thr Ile Ser Asp Glu Glu Ile Glu Arg Gln Leu Lys Ala Leu Gly  
                   260                  265                  270  
 Val Asp  
                   274

<210> 1333  
 <211> 157  
 <212>Amino acid  
 <213> Homo sapiens

```

<400> 1333
Ser Thr Asp Gly Asn Gly Ala Glu Arg Leu Phe Ala Glu Leu Arg Lys
 1      5      10      15
Met Asn Ala Arg Gly Leu Gly Ser Glu Leu Lys Asp Ser Ile Pro Val
      20      25      30
Thr Glu Leu Ser Ala Ser Gly Pro Phe Glu Ser His Asp Leu Leu Arg
      35      40      45
Lys Gly Phe Ser Cys Val Lys Asn Glu Leu Leu Pro Ser His Pro Leu
      50      55      60
Glu Leu Ser Glu Lys Asn Phe Gln Leu Asn Gln Asp Lys Met Asn Phe
      65      70      75      80
Ser Thr Leu Arg Asn Ile Gln Gly Leu Phe Ala Pro Leu Lys Leu Gln
      85      90      95
Met Glu Phe Lys Ala Val Gln Gln Val Gln Arg Leu Pro Phe Leu Ser
      100      105      110
Ser Ser Asn Leu Ser Leu Asp Val Leu Arg Gly Asn Asp Glu Thr Ile
      115      120      125
Gly Phe Glu Asp Ile Leu Asn Asp Pro Ser Gln Ser Glu Val Met Gly
      130      135      140
Glu Pro His Leu Met Val Glu Tyr Lys Leu Gly Leu Leu
      145      150      155      157

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<210> 1334

<211> 193

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(193)

<223> X = any amino acid or stop code

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<400> 1334
Arg Asn Met Lys Leu His Tyr Val Ala Val Leu Thr Leu Ala Ile Leu
 1      5      10      15
Met Phe Leu Thr Trp Leu Pro Glu Ser Leu Ser Cys Asn Lys Ala Leu
      20      25      30
Cys Ala Ser Asp Val Ser Lys Cys Leu Ile Gln Glu Leu Cys Gln Cys
      35      40      45
Arg Pro Gly Glu Gly Asn Cys Ser Cys Cys Lys Glu Cys Met Leu Cys
      50      55      60
Leu Gly Ala Leu Trp Asp Glu Cys Cys Asp Cys Val Gly Met Cys Asn
      65      70      75      80
Pro Arg Asn Tyr Ser Asp Thr Pro Pro Thr Ser Lys Ser Thr Val Glu
      85      90      95
Glu Leu His Glu Pro Ile Pro Ser Leu Phe Arg Ala Leu Thr Glu Gly
      100      105      110
Asp Thr Gln Leu Asn Trp Asn Ile Val Ser Phe Pro Val Ala Glu Glu
      115      120      125
Leu Ser His His Glu Asn Leu Val Ser Phe Leu Glu Thr Val Asn Gln
      130      135      140
Pro His His Gln Asn Val Ser Val Pro Ser Asn Asn Val His Ala Pro
      145      150      155      160
Tyr Ser Ser Asp Lys Glu Xaa Leu Pro Thr Val Asp Phe Phe His Ser
      165      170      175
Ala Pro Ser Cys Gly Leu Ser Met Xaa Ser Ile Ile Phe Phe Glu Glu

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Thr 180 185 190  
193

<210> 1335  
<211> 179  
<212> Amino acid  
<213> Homo sapiens

<400> 1335  
Val Gly Gly Val Pro Thr Trp Leu Glu Gly Cys Gly Ser Gly Asn Pro  
1 5 10 15  
Ser Pro Arg Ser Gly Gly Gly Pro Gly Ala Arg Leu Thr Leu Pro Ala  
20 25 30  
Leu Gln Met Thr Val His Asn Leu Tyr Leu Phe Asp Arg Asn Gly Val  
35 40 45  
Cys Leu His Tyr Ser Glu Trp His Arg Lys Lys Gln Ala Gly Ile Pro  
50 55 60  
Lys Glu Glu Glu Tyr Lys Leu Met Tyr Gly Met Leu Phe Ser Ile Arg  
65 70 75 80  
Ser Phe Val Ser Lys Met Ser Pro Leu Asp Met Lys Asp Gly Phe Leu  
85 90 95  
Ala Phe Gln Thr Ser Arg Tyr Lys Leu His Tyr Tyr Glu Thr Pro Thr  
100 105 110  
Gly Ile Lys Val Val Met Asn Thr Asp Leu Gly Val Gly Pro Ile Arg  
115 120 125  
Asp Val Leu His His Ile Tyr Ser Ala Leu Tyr Val Glu Leu Val Val  
130 135 140  
Lys Asn Pro Leu Cys Pro Leu Gly Gln Thr Val Gln Ser Glu Leu Phe  
145 150 155 160  
Arg Ser Arg Leu Asp Ser Tyr Val Arg Ser Leu Pro Phe Phe Ser Ala  
165 170 175  
Arg Ala Gly  
179

<210> 1336  
<211> 236  
<212> Amino acid  
<213> Homo sapiens

<400> 1336  
Pro Gly Leu Ser Gln Glu Pro Ser Gly Ser Met Glu Thr Val Val Ile  
1 5 10 15  
Val Ala Ile Gly Val Leu Ala Thr Ile Phe Leu Ala Ser Phe Ala Ala  
20 25 30  
Leu Val Leu Val Cys Arg Gln Arg Tyr Cys Arg Pro Arg Asp Leu Leu  
35 40 45  
Gln Arg Tyr Asp Ser Lys Pro Ile Val Asp Leu Ile Gly Ala Met Glu  
50 55 60  
Thr Gln Ser Glu Pro Ser Glu Leu Glu Leu Asp Asp Val Val Ile Thr  
65 70 75 80  
Asn Pro His Ile Glu Ala Ile Leu Glu Asn Glu Asp Trp Ile Glu Asp  
85 90 95  
Ala Ser Gly Leu Met Ser His Cys Ile Ala Ile Leu Lys Ile Cys His



```

      100              105              110
Thr Leu Thr Glu Lys Leu Val Ala Met Thr Met Gly Ser Gly Ala Lys
      115              120              125
Met Lys Thr Ser Ala Ser Val Ser Asp Ile Ile Val Val Ala Lys Arg
      130              135              140
Ile Ser Pro Arg Val Asp Asp Val Val Lys Ser Met Tyr Pro Pro Leu
145              150              155              160
Asp Pro Lys Leu Leu Asp Ala Arg Thr Thr Ala Leu Leu Leu Ser Val
      165              170              175
Ser His Leu Val Leu Val Thr Arg Asn Ala Cys His Leu Thr Gly Gly
      180              185              190
Leu Asp Trp Ile Asp Gln Ser Leu Ser Ala Ala Glu Glu His Leu Glu
      195              200              205
Val Leu Arg Glu Ala Ala Leu Ala Ser Glu Pro Asp Lys Gly Leu Pro
      210              215              220
Gly Pro Glu Gly Phe Leu Gln Glu Gln Ser Ala Ile
225              230              235 236

```

<210> 1337  
 <211> 161  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 1337
Val Gly Met Glu Leu Pro Ala Val Asn Leu Lys Val Ile Leu Leu Gly
  1              5              10              15
His Trp Leu Leu Thr Thr Trp Gly Cys Ile Val Phe Ser Gly Ser Tyr
      20              25              30
Ala Trp Ala Asn Phe Thr Ile Leu Ala Leu Gly Val Trp Ala Val Ala
      35              40              45
Gln Arg Asp Ser Ile Asp Ala Ile Ser Met Phe Leu Gly Gly Leu Leu
      50              55              60
Ala Thr Ile Phe Leu Asp Ile Val His Ile Ser Ile Phe Tyr Pro Arg
      65              70              75              80
Val Ser Leu Thr Asp Thr Gly Arg Phe Gly Val Gly Met Ala Ile Leu
      85              90              95
Ser Leu Leu Leu Lys Pro Leu Ser Cys Cys Phe Val Tyr His Met Tyr
      100              105              110
Arg Glu Arg Gly Gly Glu Leu Leu Val His Thr Gly Phe Leu Gly Ser
      115              120              125
Ser Gln Asp Arg Ser Ala Tyr Gln Thr Ile Asp Ser Ala Glu Ala Pro
      130              135              140
Ala Asp Pro Phe Ala Val Pro Glu Gly Arg Ser Gln Asp Ala Arg Gly
145              150              155              160
Tyr
161

```

<210> 1338  
 <211> 200  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 1338
Pro Ala Ser Arg Pro Leu Leu Gly Pro Asp Thr Gly Ser Val Ala Asn

```

```

1           5           10           15
Ile Phe Lys Gly Leu Val Ile Leu Pro Glu Met Ser Leu Val Ile Arg
      20           25           30
Asn Leu Gln Arg Val Ile Pro Ile Arg Arg Ala Pro Leu Arg Ser Lys
      35           40           45
Ile Glu Ile Val Arg Arg Ile Leu Gly Val Gln Lys Phe Asp Leu Gly
      50           55           60
Ile Ile Cys Val Asp Asn Lys Asn Ile Gln His Ile Asn Arg Ile Tyr
      65           70           75           80
Arg Asp Arg Asn Val Pro Thr Asp Val Leu Ser Phe Pro Phe His Glu
      85           90           95
His Leu Lys Ala Gly Glu Phe Pro Gln Pro Asp Phe Pro Asp Asp Tyr
      100          105          110
Asn Leu Gly Asp Ile Phe Leu Gly Val Glu Tyr Ile Phe His Gln Cys
      115          120          125
Lys Glu Asn Glu Asp Tyr Asn Asp Val Leu Thr Val Thr Ala Thr His
      130          135          140
Gly Leu Cys His Leu Leu Gly Phe Thr His Gly Thr Glu Ala Glu Trp
      145          150          155          160
Gln Gln Met Phe Gln Lys Glu Lys Ala Val Leu Asp Glu Leu Gly Arg
      165          170          175
Arg Thr Gly Thr Arg Leu Gln Pro Leu Thr Pro Gly Pro Leu Pro Glu
      180          185          190
Gly Ala Glu Gly Arg Val Pro Phe
      195          200

```

&lt;210&gt; 1339

&lt;211&gt; 267

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1339

```

Leu Arg Asn Ala Leu Asp Val Leu His Arg Glu Val Pro Arg Val Leu
1           5           10           15
Val Asn Leu Val Asp Phe Leu Asn Pro Thr Ile Met Arg Gln Val Phe
      20           25           30
Leu Gly Asn Pro Asp Lys Cys Pro Val Gln Gln Ala Met Leu Glu Pro
      35           40           45
Leu Gly Ser Lys Thr Glu Thr Leu Asp Leu Arg Ala Glu Met Pro Ile
      50           55           60
Thr Cys Pro Thr Gln Asn Glu Pro Phe Leu Arg Thr Pro Arg Asn Ser
      65           70           75           80
Asn Tyr Thr Tyr Pro Ile Lys Pro Ala Ile Glu Asn Trp Gly Ser Asp
      85           90           95
Phe Leu Cys Thr Glu Trp Lys Ala Ser Asn Ser Val Pro Thr Ser Val
      100          105          110
His Gln Leu Arg Pro Ala Asp Ile Lys Val Val Ala Ala Leu Gly Asp
      115          120          125
Ser Leu Thr Thr Ala Val Gly Ala Arg Pro Asn Asn Ser Ser Asp Leu
      130          135          140
Pro Thr Ser Trp Arg Gly Leu Ser Trp Ser Ile Gly Gly Asp Gly Asn
      145          150          155          160
Leu Glu Thr His Thr Thr Leu Pro Asn Ile Leu Lys Lys Phe Asn Pro
      165          170          175
Tyr Leu Leu Gly Phe Ser Thr Ser Thr Trp Glu Gly Thr Ala Gly Leu
      180          185          190
Asn Val Ala Ala Glu Gly Ala Arg Ala Arg Asp Met Pro Ala Gln Ala
      195          200          205
Trp Asp Leu Val Glu Arg Met Lys Asn Ser Pro Asp Ile Asn Leu Glu

```

210		215		220
Lys Asp Trp Lys Leu Val Thr Leu Phe Ile Gly Gly Asn Asp Leu Cys				
225		230		235
His Tyr Cys Glu Asn Pro Glu Ala His Leu Ala Thr Glu Tyr Val Gln				
	245		250	255
His Ile Gln Gln Ala Leu Asp Ile Leu Ser Glu				
	260	265	267	

&lt;210&gt; 1340

&lt;211&gt; 286

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

<400> 1340														
Val Val Glu Phe Leu Trp Ser Arg Arg Pro Ser Gly Ser Ser Asp Pro														
1		5			10			15						
Arg Pro Arg Arg Pro Ala Ser Lys Cys Gln Met Met Glu Glu Arg Ala														
	20				25			30						
Asn Leu Met His Met Met Lys Leu Ser Ile Lys Val Leu Leu Gln Ser														
	35				40			45						
Ala Leu Ser Leu Gly Arg Ser Leu Asp Ala Asp His Ala Pro Leu Gln														
	50				55			60						
Gln Phe Phe Val Val Met Glu His Cys Leu Lys His Gly Leu Lys Val														
	65				70			75						80
Lys Lys Ser Phe Ile Gly Gln Asn Lys Ser Phe Phe Gly Pro Leu Glu														
		85					90						95	
Leu Val Glu Lys Leu Cys Pro Glu Ala Ser Asp Ile Ala Thr Ser Val														
	100				105			110						
Arg Asn Leu Pro Glu Leu Lys Thr Ala Val Gly Arg Gly Arg Ala Trp														
	115				120			125						
Leu Tyr Leu Ala Leu Met Gln Lys Lys Leu Ala Asp Tyr Leu Lys Val														
	130				135			140						
Leu Ile Asp Asn Lys His Leu Leu Ser Glu Phe Tyr Glu Pro Glu Ala														
	145				150			155						160
Leu Met Met Glu Glu Glu Gly Met Val Ile Val Gly Leu Leu Val Gly														
		165					170						175	
Leu Asn Val Leu Asp Ala Asn Leu Cys Leu Lys Gly Glu Asp Leu Asp														
	180				185								190	
Ser Gln Val Gly Val Ile Asp Phe Ser Leu Tyr Leu Lys Asp Val Gln														
	195				200			205						
Asp Leu Asp Gly Gly Lys Glu His Glu Arg Ile Thr Asp Val Leu Asp														
	210				215			220						
Gln Lys Asn Tyr Val Glu Glu Leu Asn Arg His Leu Ser Cys Thr Val														
	225				230			235						240
Gly Asp Leu Gln Thr Lys Ile Asp Gly Leu Glu Lys Thr Asn Ser Lys														
		245					250						255	
Leu Gln Glu Arg Val Ser Ala Ala Thr Asp Arg Ile Cys Ser Leu Gln														
	260						265						270	
Glu Glu Gln Gln Gln Leu Arg Glu Gln Asn Glu Leu Ile Arg														
	275					280						285	286	

&lt;210&gt; 1341

&lt;211&gt; 233

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1341

```

Lys Pro Glu Gly Ala Arg Arg Val Gln Phe Val Met Gly Leu Phe Gly
 1           5           10           15
Lys Thr Gln Glu Lys Pro Pro Lys Glu Leu Val Asn Glu Trp Ser Leu
 20           25           30
Lys Ile Arg Lys Glu Met Arg Val Asp Arg Gln Ile Arg Asp Ile
 35           40           45
Gln Arg Glu Glu Glu Lys Val Lys Arg Ser Val Lys Asp Ala Ala Lys
 50           55           60
Lys Gly Gln Lys Asp Val Cys Ile Val Leu Ala Lys Glu Met Ile Arg
 65           70           75           80
Ser Arg Lys Ala Val Ser Lys Leu Tyr Ala Ser Lys Ala His Met Asn
 85           90           95
Ser Val Leu Met Gly Met Lys Asn Gln Leu Ala Val Leu Arg Val Ala
 100          105          110
Gly Ser Leu Gln Lys Ser Thr Glu Val Met Lys Ala Met Gln Ser Leu
 115          120          125
Val Lys Ile Pro Glu Ile Gln Ala Thr Met Arg Glu Leu Ser Lys Glu
 130          135          140
Met Met Lys Ala Gly Ile Ile Glu Glu Met Leu Glu Asp Thr Phe Glu
 145          150          155          160
Ser Met Asp Asp Gln Glu Glu Met Glu Glu Glu Ala Glu Met Glu Ile
 165          170          175
Asp Arg Ile Leu Phe Glu Ile Thr Ala Gly Ala Leu Gly Lys Ala Pro
 180          185          190
Ser Lys Val Thr Asp Ala Leu Pro Glu Pro Glu Pro Pro Gly Ala Met
 195          200          205
Ala Ala Ser Glu Asp Glu Glu Glu Glu Glu Ala Leu Glu Ala Met
 210          215          220
Gln Ser Arg Leu Ala Thr Leu Arg Ser
 225          230          233

```

&lt;210&gt; 1342

&lt;211&gt; 150

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1342

```

Arg Trp Asn Ser Ile Met Glu Leu Ala Leu Leu Cys Gly Leu Val Val
 1           5           10           15
Met Ala Gly Val Ile Pro Ile Gln Gly Gly Ile Leu Asn Leu Asn Lys
 20           25           30
Met Val Lys Gln Val Thr Gly Lys Met Pro Ile Leu Ser Tyr Trp Pro
 35           40           45
Tyr Gly Cys His Cys Gly Leu Gly Gly Arg Gly Gln Pro Lys Asp Ala
 50           55           60
Thr Asp Trp Cys Cys Gln Thr His Asp Cys Cys Tyr Asp His Leu Lys
 65           70           75           80
Thr Gln Gly Cys Gly Ile Tyr Lys Asp Tyr Tyr Arg Tyr Asn Phe Ser
 85           90           95
Gln Gly Asn Ile His Cys Ser Asp Lys Gly Ser Trp Cys Glu Gln Gln
 100          105          110
Leu Cys Ala Cys Asp Lys Glu Val Ala Phe Cys Leu Lys Arg Asn Leu
 115          120          125
Asp Thr Tyr Gln Lys Arg Leu Arg Phe Tyr Trp Arg Pro His Cys Arg
 130          135          140
Gly Gln Thr Pro Gly Cys

```

145

150

<210> 1343  
 <211> 127  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1343  
 Lys Thr Val Ala Glu Glu Ala Ser Val Gly Asn Pro Glu Gly Ala Phe  
 1 5 10 15  
 Met Lys Met Leu Gln Ala Arg Lys Gln His Met Ser Thr Glu Leu Thr  
 20 25 30  
 Ile Glu Ser Glu Ala Pro Ser Asp Ser Ser Gly Ile Asn Leu Ser Gly  
 35 40 45  
 Phe Gly Ser Glu Gln Leu Asp Thr Asn Asp Glu Ser Asp Val Ser Ser  
 50 55 60  
 Ala Leu Ser Tyr Ile Leu Pro Tyr Leu Ser Leu Arg Asn Leu Gly Ala  
 65 70 75 80  
 Glu Ser Ile Leu Leu Pro Phe Thr Glu Gln Leu Phe Ser Asn Val Gln  
 85 90 95  
 Asp Gly Asp Arg Leu Leu Ser Ile Leu Lys Asn Asn Arg Lys Ser Pro  
 100 105 110  
 Ser Gln Ser Ser Leu Leu Gly Asn Lys Phe Lys Asn Lys Ile Phe  
 115 120 125 127

<210> 1344  
 <211> 126  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1344  
 Leu Pro Leu Thr Leu Leu Leu Ala Ala Pro Phe Ala His Leu Leu Leu  
 1 5 10 15  
 Pro Pro Gly His Asp Gln Ser Pro Cys Trp His Pro Gly Pro Ala Leu  
 20 25 30  
 Ser Pro Gly Thr Leu Gly Pro Leu Ser Trp Ala Met Ala Asn Ser Gly  
 35 40 45  
 Leu Gln Leu Leu Gly Tyr Phe Leu Ala Leu Gly Gly Trp Val Gly Ile  
 50 55 60  
 Ile Ala Ser Thr Ala Leu Pro Gln Trp Lys Gln Ser Ser Tyr Ala Gly  
 65 70 75 80  
 Asp Ala Ser Ile Gln Leu Arg Ser Lys Val Phe Val Leu Glu Ser Glu  
 85 90 95  
 Trp Gly Gly Asp Ser Leu Gly Leu Pro Arg Asp Cys Gly Trp Ser Cys  
 100 105 110  
 Leu Leu His Ser Ala Val Arg Ser Glu Lys Gly Phe Trp Ser  
 115 120 125 126

<210> 1345  
 <211> 328  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1345  
 Asp Pro Arg Val Arg Pro Pro Leu Leu Gln Pro Pro Pro Pro Leu Leu  
 1 5 10 15  
 Pro Arg Leu Val Ile Leu Lys Met Ala Pro Leu Asp Leu Asp Lys Tyr  
 20 25 30  
 Val Glu Ile Ala Arg Leu Cys Lys Tyr Leu Pro Glu Asn Asp Leu Lys  
 35 40 45  
 Arg Leu Cys Asp Tyr Val Cys Asp Leu Leu Leu Glu Glu Ser Asn Val  
 50 55 60  
 Gln Pro Val Ser Thr Pro Val Thr Val Cys Gly Asp Ile His Gly Gln  
 65 70 75 80  
 Phe Tyr Asp Leu Cys Glu Leu Phe Arg Thr Gly Gly Gln Val Pro Asp  
 85 90 95  
 Thr Asn Tyr Ile Phe Met Gly Asp Phe Val Asp Arg Gly Tyr Tyr Ser  
 100 105 110  
 Leu Glu Thr Phe Thr Tyr Leu Leu Ala Leu Lys Ala Lys Trp Pro Asp  
 115 120 125  
 Arg Ile Thr Leu Leu Arg Gly Asn His Glu Ser Arg Gln Ile Thr Gln  
 130 135 140  
 Val Tyr Gly Phe Tyr Asp Glu Cys Gln Thr Lys Tyr Gly Asn Ala Asn  
 145 150 155 160  
 Ala Trp Arg Tyr Cys Thr Lys Val Phe Asp Met Leu Thr Val Ala Ala  
 165 170 175  
 Leu Ile Asp Glu Gln Ile Leu Cys Val His Gly Gly Leu Ser Pro Asp  
 180 185 190  
 Ile Lys Thr Leu Asp Gln Ile Arg Thr Ile Glu Arg Asn Gln Glu Ile  
 195 200 205  
 Pro His Lys Gly Ala Phe Cys Asp Leu Val Trp Ser Asp Pro Glu Asp  
 210 215 220  
 Val Asp Thr Trp Ala Ile Ser Pro Arg Gly Ala Gly Trp Leu Phe Gly  
 225 230 235 240  
 Ala Lys Val Thr Asn Glu Phe Val His Ile Asn Asn Leu Lys Leu Ile  
 245 250 255  
 Cys Arg Ala His Gln Leu Val His Glu Gly Tyr Lys Phe Met Phe Asp  
 260 265 270  
 Glu Lys Leu Val Thr Val Trp Ser Ala Pro Asn Tyr Cys Tyr Arg Cys  
 275 280 285  
 Gly Asn Ile Ala Ser Ile Met Val Phe Lys Asp Val Asn Thr Arg Glu  
 290 295 300  
 Pro Lys Leu Phe Arg Ala Val Pro Asp Ser Glu Arg Val Ile Pro Pro  
 305 310 315 320  
 Arg Thr Thr Thr Pro Tyr Phe Leu  
 325 328

<210> 1346  
 <211> 253  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1346  
 Ser Phe Ala Gly Ala Ala Ala Arg Pro Ser Thr Pro Pro Ala Ser Gly  
 1 5 10 15  
 Arg Gly Ala Ala Pro Gly Arg Pro Gly Pro Ser Pro Met Asp Leu Arg  
 20 25 30  
 Ala Gly Asp Ser Trp Gly Met Leu Ala Cys Leu Cys Thr Val Leu Trp

```

      35      40      45
His Leu Pro Ala Val Pro Ala Leu Asn Arg Thr Gly Asp Pro Gly Pro
  50      55      60
Gly Pro Ser Ile Gln Lys Thr Tyr Asp Leu Thr Arg Tyr Leu Glu His
  65      70      75      80
Gln Leu Arg Ser Leu Ala Gly Thr Tyr Leu Asn Tyr Leu Gly Pro Pro
      85      90      95
Phe Asn Glu Pro Asp Phe Asn Pro Pro Arg Leu Gly Ala Glu Thr Leu
      100      105      110
Pro Arg Ala Thr Val Asp Leu Glu Val Trp Arg Ser Leu Asn Asp Lys
      115      120      125
Leu Arg Leu Thr Gln Asn Tyr Glu Ala Tyr Ser His Leu Leu Cys Tyr
      130      135      140
Leu Arg Gly Leu Asn Arg Gln Ala Ala Thr Ala Glu Leu Arg Arg Ser
      145      150      155      160
Leu Ala His Phe Cys Thr Ser Leu Gln Gly Leu Leu Gly Ser Ile Ala
      165      170      175
Gly Val Met Ala Ala Leu Gly Tyr Pro Leu Pro Gln Pro Leu Pro Gly
      180      185      190
Thr Glu Pro Thr Trp Thr Pro Gly Pro Ala His Ser Asp Phe Leu Gln
      195      200      205
Lys Met Asp Asp Phe Trp Leu Leu Lys Glu Leu Gln Thr Trp Leu Trp
      210      215      220
Arg Ser Ala Lys Asp Phe Asn Arg Leu Lys Lys Lys Met Gln Pro Pro
      225      230      235      240
Ala Ala Ala Val Thr Leu His Leu Gly Ala His Gly Phe
      245      250      253

```

&lt;210&gt; 1347

&lt;211&gt; 195

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1347

```

Ile Lys Ile Ser Leu Lys Lys Arg Ser Met Ser Gly Ile Ser Gly Cys
  1      5      10      15
Pro Phe Phe Leu Trp Gly Leu Leu Ala Leu Leu Gly Leu Ala Leu Val
      20      25      30
Ile Ser Leu Ile Phe Asn Ile Ser His Tyr Val Glu Lys Gln Arg Gln
      35      40      45
Asp Lys Met Tyr Ser Tyr Ser Ser Asp His Thr Arg Val Asp Glu Tyr
      50      55      60
Tyr Ile Glu Asp Thr Pro Ile Tyr Gly Asn Leu Asp Asp Met Ile Ser
      65      70      75      80
Glu Pro Met Asp Glu Asn Cys Tyr Glu Gln Met Lys Ala Arg Pro Glu
      85      90      95
Lys Ser Val Asn Lys Met Gln Glu Ala Thr Pro Ser Ala Gln Ala Thr
      100      105      110
Asn Glu Thr Gln Met Cys Tyr Ala Ser Leu Asp His Ser Val Lys Gly
      115      120      125
Lys Arg Arg Lys Pro Arg Lys Gln Asn Thr His Phe Ser Asp Lys Asp
      130      135      140
Gly Asp Glu Gln Leu His Ala Ile Asp Ala Ser Val Ser Lys Thr Thr
      145      150      155      160
Leu Val Asp Ser Phe Ser Pro Glu Ser Gln Ala Val Glu Glu Asn Ile
      165      170      175
His Asp Asp Pro Ile Arg Leu Phe Gly Leu Ile Arg Ala Lys Arg Glu
      180      185      190
Pro Ile Asn

```

195

<210> 1348  
 <211> 268  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1348  
 Val Glu Phe His Pro Gln Arg Ala Arg Ala Gly Ala Arg Ala Pro Ser  
 1 5 10 15  
 Met Gly Val Leu Leu Thr Gln Arg Thr Leu Leu Ser Leu Val Leu Ala  
 20 25 30  
 Leu Leu Phe Pro Ser Met Ala Ser Met Ala Ala Ile Gly Ser Cys Ser  
 35 40 45  
 Lys Glu Tyr Arg Val Leu Leu Gly Gln Leu Gln Lys Gln Thr Asp Leu  
 50 55 60  
 Met Gln Asp Thr Ser Arg Leu Leu Asp Pro Tyr Ile Arg Ile Gln Gly  
 65 70 75 80  
 Leu Asp Val Pro Lys Leu Arg Glu His Cys Arg Glu Arg Pro Gly Ala  
 85 90 95  
 Phe Pro Ser Glu Thr Leu Arg Gly Leu Gly Arg Arg Cys Phe Leu  
 100 105 110  
 Gln Thr Leu Asn Ala Thr Leu Gly Cys Val Leu His Arg Leu Ala Asp  
 115 120 125  
 Leu Glu Gln Arg Leu Pro Lys Ala Gln Asp Leu Glu Arg Ser Gly Leu  
 130 135 140  
 Asn Ile Glu Asp Leu Glu Lys Leu Gln Met Ala Arg Pro Asn Ile Leu  
 145 150 155 160  
 Gly Leu Arg Asn Asn Ile Tyr Cys Met Ala Gln Leu Leu Asp Asn Ser  
 165 170 175  
 Asp Thr Ala Glu Pro Thr Lys Ala Gly Arg Gly Ala Ser Gln Pro Pro  
 180 185 190  
 Thr Pro Thr Pro Ala Ser Asp Ala Phe Gln Arg Lys Leu Glu Gly Cys  
 195 200 205  
 Arg Phe Leu His Gly Tyr His Arg Phe Met His Ser Val Gly Arg Val  
 210 215 220  
 Phe Ser Lys Trp Gly Glu Ser Pro Asn Arg Ser Arg Arg His Ser Pro  
 225 230 235 240  
 His Gln Ala Leu Arg Lys Gly Val Arg Arg Thr Arg Pro Ser Arg Lys  
 245 250 255  
 Gly Lys Arg Leu Met Thr Arg Gly Gln Leu Pro Arg  
 260 265 268

<210> 1349  
 <211> 138  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1349  
 Asp Phe Pro Gly Arg Arg Phe Arg Leu Val Trp Leu Leu Val Leu Arg  
 1 5 10 15  
 Leu Pro Trp Arg Val Pro Gly Gln Leu Asp Pro Thr Thr Gly Arg Arg  
 20 25 30  
 Phe Ser Glu His Lys Leu Cys Ala Asp Asp Glu Cys Ser Met Leu Met



```

      35              40              45
Tyr Arg Gly Glu Ala Leu Glu Asp Phe Thr Gly Pro Asp Cys Arg Phe
      50              55              60
Val Asn Phe Lys Lys Gly Asp Pro Val Tyr Val Tyr Tyr Lys Leu Ala
      65              70              75              80
Arg Gly Trp Pro Glu Val Trp Ala Gly Ser Val Gly Arg Thr Phe Gly
      85              90              95
Tyr Phe Pro Lys Asp Leu Ile Gln Val Val His Glu Tyr Thr Lys Glu
      100             105             110
Glu Leu Gln Val Pro Thr Asn Glu Thr Asp Phe Val Cys Phe Asp Gly
      115             120             125
Gly Arg Asp Asp Phe His Asn Tyr Asn Val
      130             135             138

```

<210> 1350  
 <211> 236  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 1350
Ser Pro Leu Gly Lys Glu Gly Gln Glu Glu Val Arg Val Lys Ile Lys
      1              5              10              15
Asp Leu Asn Glu His Ile Val Cys Cys Leu Cys Ala Gly Tyr Phe Val
      20             25             30
Asp Ala Thr Thr Ile Thr Glu Cys Leu His Thr Phe Cys Lys Ser Cys
      35             40             45
Ile Val Lys Tyr Leu Gln Thr Ser Lys Tyr Cys Pro Met Cys Asn Ile
      50             55             60
Lys Ile His Glu Thr Gln Pro Leu Leu Asn Leu Lys Leu Asp Arg Val
      65             70             75             80
Met Gln Asp Ile Val Tyr Lys Leu Val Pro Gly Leu Gln Asp Ser Glu
      85             90             95
Glu Lys Arg Ile Arg Glu Phe Tyr Gln Ser Arg Gly Leu Asp Arg Val
      100            105            110
Thr Gln Pro Thr Gly Glu Glu Pro Ala Leu Ser Asn Leu Gly Leu Pro
      115            120            125
Phe Ser Ser Phe Asp His Ser Lys Ala His Tyr Tyr Arg Tyr Asp Glu
      130            135            140
Gln Leu Asn Leu Cys Leu Glu Arg Leu Ser Ser Gly Lys Asp Lys Asn
      145            150            155            160
Lys Ser Val Leu Gln Asn Lys Tyr Val Arg Cys Ser Val Arg Ala Glu
      165            170            175
Val Arg His Leu Arg Arg Val Leu Cys His Arg Leu Met Leu Asn Pro
      180            185            190
Gln His Val Gln Leu Leu Phe Asp Asn Glu Val Leu Pro Asp His Met
      195            200            205
Thr Met Lys Gln Ile Trp Leu Ser Arg Trp Phe Gly Lys Pro Ser Pro
      210            215            220
Leu Leu Leu Gln Tyr Ser Val Lys Glu Lys Arg Arg
      225            230            235            236

```

<210> 1351  
 <211> 178  
 <212>Amino acid  
 <213> Homo sapiens

&lt;400&gt; 1351

Leu Trp Trp Tyr Ser Ala His Ala Ala Val Asp Ala Met Met Asp Val  
 1 5 10 15  
 Phe Gly Val Gly Phe Pro Ser Lys Val Pro Trp Lys Lys Met Ser Ala  
 20 25 30  
 Glu Glu Leu Glu Asn Gln Tyr Cys Pro Ser Arg Trp Val Val Arg Leu  
 35 40 45  
 Gly Ala Glu Glu Ala Leu Arg Thr Tyr Ser Gln Ile Gly Ile Glu Ala  
 50 55 60  
 Thr Thr Arg Ala Arg Ala Thr Arg Lys Ser Leu Leu His Val Pro Tyr  
 65 70 75 80  
 Gly Asp Gly Glu Gly Glu Lys Val Asp Ile Tyr Phe Pro Asp Glu Ser  
 85 90 95  
 Ser Glu Ala Thr Thr Arg Ala Arg Ala Thr Arg Lys Ser Leu Leu His  
 100 105 110  
 Val Pro Tyr Gly Asp Gly Glu Gly Lys Val Asp Ile Tyr Phe Pro  
 115 120 125  
 Asp Glu Ser Ser Glu Ala Leu Pro Phe Phe Leu Phe Phe His Gly Gly  
 130 135 140  
 Tyr Trp Gln Ser Gly Arg His Pro Gly Pro His Gly Arg Pro Gly Asp  
 145 150 155 160  
 Pro Gln Arg Cys Val Cys Pro Glu Ala Val Ser Lys Gln Gln Ala Phe  
 165 170 175  
 Ser Trp  
 178

&lt;210&gt; 1352

&lt;211&gt; 284

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1352

Gly Val Arg Met Ala Ser Arg Gly Arg Arg Pro Glu His Gly Gly Pro  
 1 5 10 15  
 Pro Glu Leu Phe Tyr Asp Glu Thr Glu Ala Arg Lys Tyr Val Arg Asn  
 20 25 30  
 Ser Arg Met Ile Asp Ile Gln Thr Arg Met Ala Gly Arg Ala Leu Glu  
 35 40 45  
 Leu Leu Tyr Leu Pro Glu Asn Lys Pro Cys Tyr Leu Leu Asp Ile Gly  
 50 55 60  
 Cys Gly Thr Gly Leu Ser Gly Ser Tyr Leu Ser Asp Glu Gly His Tyr  
 65 70 75 80  
 Trp Val Gly Leu Asp Ile Ser Pro Ala Met Leu Asp Glu Ala Val Asp  
 85 90 95  
 Arg Glu Ile Glu Gly Asp Leu Leu Leu Gly Asp Met Gly Gln Gly Ile  
 100 105 110  
 Pro Phe Lys Pro Gly Thr Phe Asp Gly Cys Ile Ser Ile Ser Ala Val  
 115 120 125  
 Gln Trp Leu Cys Asn Ala Asn Lys Lys Ser Glu Asn Pro Ala Lys Arg  
 130 135 140  
 Leu Tyr Cys Phe Phe Ala Ser Leu Phe Ser Val Leu Val Arg Gly Ser  
 145 150 155 160  
 Arg Ala Val Leu Gln Leu Tyr Pro Glu Asn Ser Glu Gln Leu Glu Leu  
 165 170 175  
 Ile Thr Thr Gln Ala Thr Lys Ala Gly Phe Ser Gly Gly Met Val Val  
 180 185 190  
 Asp Tyr Pro Asn Ser Ala Lys Ala Lys Lys Phe Tyr Leu Cys Leu Phe

		195						200					205						
Ser	Gly	Pro	Ser	Thr	Phe	Ile	Pro	Glu	Gly	Leu	Ser	Glu	Asn	Gln	Asp				
	210					215						220							
Glu	Val	Glu	Pro	Arg	Glu	Ser	Val	Phe	Thr	Asn	Glu	Arg	Phe	Pro	Leu				
225					230					235					240				
Arg	Met	Ser	Arg	Arg	Gly	Met	Val	Arg	Lys	Ser	Arg	Ala	Trp	Val	Leu				
				245				250						255					
Glu	Lys	Lys	Glu	Arg	His	Arg	Arg	Gln	Gly	Arg	Glu	Val	Arg	Pro	Asp				
			260					265					270						
Thr	Gln	Tyr	Thr	Gly	Arg	Lys	Arg	Lys	Pro	Arg	Phe								
	275						280				284								

<210> 1353  
 <211> 363  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1353

Thr	Leu	Ile	Cys	Arg	Met	Ala	Gly	Cys	Gly	Glu	Ile	Asp	His	Ser	Ile				
1				5					10					15					
Asn	Met	Leu	Pro	Thr	Asn	Arg	Lys	Ala	Asn	Glu	Ser	Cys	Ser	Asn	Thr				
			20					25					30						
Ala	Pro	Ser	Leu	Thr	Val	Pro	Glu	Cys	Ala	Ile	Cys	Leu	Gln	Thr	Cys				
	35						40					45							
Val	His	Pro	Val	Ser	Leu	Pro	Cys	Lys	His	Val	Phe	Cys	Tyr	Leu	Cys				
	50					55					60								
Val	Lys	Gly	Ala	Ser	Trp	Leu	Gly	Lys	Arg	Cys	Ala	Leu	Cys	Arg	Gln				
	65				70					75					80				
Glu	Ile	Pro	Glu	Asp	Phe	Leu	Asp	Lys	Pro	Thr	Leu	Leu	Ser	Pro	Glu				
				85					90					95					
Glu	Leu	Lys	Ala	Ser	Arg	Gly	Asn	Gly	Glu	Tyr	Ala	Trp	Tyr	Tyr					
			100					105					110						
Glu	Gly	Arg	Asn	Gly	Trp	Trp	Gln	Tyr	Asp	Glu	Arg	Thr	Ser	Arg	Glu				
			115				120						125						
Leu	Glu	Asp	Ala	Phe	Ser	Lys	Gly	Lys	Lys	Asn	Thr	Glu	Met	Leu	Ile				
	130					135					140								
Ala	Gly	Phe	Leu	Tyr	Val	Ala	Asp	Leu	Glu	Asn	Met	Val	Gln	Tyr	Arg				
	145				150					155					160				
Arg	Asn	Glu	His	Gly	Arg	Arg	Arg	Lys	Ile	Lys	Arg	Asp	Ile	Ile	Asp				
			165					170						175					
Ile	Pro	Lys	Lys	Gly	Val	Ala	Gly	Leu	Arg	Leu	Asp	Cys	Asp	Ala	Asn				
			180					185					190						
Thr	Val	Asn	Leu	Ala	Arg	Glu	Ser	Ser	Ala	Asp	Gly	Ala	Asp	Ser	Val				
		195					200					205							
Ser	Ala	Gln	Ser	Gly	Ala	Ser	Val	Gln	Pro	Leu	Val	Ser	Ser	Val	Arg				
	210				215							220							
Pro	Leu	Thr	Ser	Val	Asp	Gly	Gln	Leu	Thr	Ser	Pro	Ala	Thr	Pro	Ser				
	225				230					235					240				
Pro	Asp	Ala	Ser	Thr	Ser	Leu	Glu	Asp	Ser	Phe	Ala	His	Leu	Gln	Leu				
				245				250						255					
Ser	Gly	Asp	Asn	Thr	Ala	Glu	Arg	Ser	His	Arg	Gly	Glu	Gly	Glu	Glu				
			260				265						270						
Asp	His	Glu	Ser	Pro	Ser	Ser	Gly	Arg	Val	Pro	Ala	Pro	Asp	Thr	Ser				
	275						280					285							
Ile	Glu	Glu	Thr	Glu	Ser	Asp	Ala	Ser	Ser	Asp	Ser	Glu	Asp	Val	Ser				
	290					295						300							
Ala	Val	Val	Ala	Gln	His	Ser	Leu	Thr	Gln	Gln	Arg	Leu	Leu	Val	Ser				
	305				310						315				320				
Asn	Ala	Asn	Gln	Thr	Val	Pro	Asp	Arg	Ser	Asp	Arg	Ser	Gly	Thr	Asp				

			325					330				335	
Arg	Ser	Val	Ala	Gly	Gly	Gly	Thr	Val	Ser	Val	Ser	Val	Arg
			340					345				350	
Arg	Pro	Asp	Gly	Gln	Cys	Thr	Val	Thr	Glu	Val			
			355				360			363			

<210> 1354  
 <211> 368  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1354

Gly	Ala	Thr	Pro	Leu	Gly	Ser	Val	Gly	Gly	Arg	Thr	Gly	Lys	Met	Asp
1				5				10						15	
Ala	Ala	Thr	Leu	Thr	Tyr	Asp	Thr	Leu	Arg	Phe	Ala	Glu	Phe	Glu	Asp
			20					25					30		
Phe	Pro	Glu	Thr	Ser	Glu	Pro	Val	Trp	Ile	Leu	Gly	Arg	Lys	Tyr	Ser
		35				40						45			
Ile	Phe	Thr	Glu	Lys	Asp	Glu	Ile	Leu	Ser	Asp	Val	Ala	Ser	Arg	Leu
	50				55					60					
Trp	Phe	Thr	Tyr	Arg	Lys	Asn	Phe	Pro	Ala	Ile	Gly	Gly	Thr	Gly	Pro
65				70						75					80
Thr	Ser	Asp	Thr	Gly	Trp	Gly	Cys	Met	Leu	Arg	Cys	Gly	Gln	Met	Ile
			85					90						95	
Phe	Ala	Gln	Ala	Leu	Val	Cys	Arg	His	Leu	Gly	Arg	Asp	Trp	Arg	Trp
			100					105					110		
Thr	Gln	Arg	Lys	Arg	Gln	Pro	Asp	Ser	Tyr	Phe	Ser	Val	Leu	Asn	Ala
	115					120						125			
Phe	Ile	Asp	Arg	Lys	Asp	Ser	Tyr	Tyr	Ser	Ile	His	Gln	Ile	Ala	Gln
	130				135						140				
Met	Gly	Val	Gly	Glu	Gly	Lys	Ser	Ile	Gly	Gln	Trp	Tyr	Gly	Pro	Asn
145				150					155						160
Thr	Val	Ala	Gln	Val	Leu	Lys	Lys	Leu	Ala	Val	Phe	Asp	Thr	Trp	Ser
			165					170						175	
Ser	Leu	Ala	Val	His	Ile	Ala	Met	Asp	Asn	Thr	Val	Val	Met	Glu	Glu
			180					185					190		
Ile	Arg	Arg	Leu	Cys	Arg	Thr	Ser	Val	Pro	Cys	Ala	Gly	Ala	Thr	Ala
	195					200						205			
Phe	Pro	Ala	Asp	Ser	Asp	Arg	His	Cys	Asn	Gly	Phe	Pro	Ala	Gly	Ala
	210				215					220					
Glu	Val	Thr	Asn	Arg	Pro	Ser	Pro	Trp	Arg	Pro	Leu	Val	Leu	Leu	Ile
225				230					235						240
Pro	Leu	Arg	Leu	Gly	Leu	Thr	Asp	Ile	Asn	Glu	Ala	Tyr	Val	Glu	Thr
			245					250						255	
Leu	Lys	His	Cys	Phe	Met	Met	Pro	Gln	Ser	Leu	Gly	Val	Ile	Gly	Gly
		260					265						270		
Lys	Pro	Asn	Ser	Ala	His	Tyr	Phe	Ile	Gly	Tyr	Val	Gly	Glu	Glu	Leu
	275					280						285			
Ile	Tyr	Leu	Asp	Pro	His	Thr	Gln	Pro	Ala	Val	Glu	Pro	Thr	Asp	
	290					295				300					
Gly	Cys	Phe	Ile	Pro	Asp	Glu	Ser	Phe	His	Cys	Gln	His	Pro	Pro	Cys
305				310					315						320
Arg	Met	Ser	Ile	Ala	Glu	Leu	Asp	Pro	Ser	Ile	Ala	Val	Val	Arg	Gly
			325					330						335	
Gly	His	Leu	Ser	Thr	Gln	Ala	Phe	Gly	Ala	Glu	Cys	Cys	Leu	Gly	Met
		340					345						350		
Thr	Arg	Lys	Thr	Phe	Gly	Phe	Leu	Arg	Phe	Phe	Phe	Ser	Met	Leu	Gly
		355					360					365			368

<210> 1355  
 <211> 117  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1355  
 Pro Thr Thr Ser Asn Arg Ala Ile Thr Leu Thr Ala Trp Pro Lys Ile  
 1 5 10 15  
 Pro Phe Leu Gly Ile Cys Glu Ala Lys Asn Pro Arg Ser Glu Asn Met  
 20 25 30  
 Arg Leu Ala Thr Ile Leu Glu Val Ala Cys His His Leu Gly Ser Gly  
 35 40 45  
 Pro Pro Pro Ser Trp Glu Leu Trp Glu Gln Gly Pro Pro Gly Asn Ser  
 50 55 60  
 Ser Arg Tyr Ile Glu Phe Leu Asn Lys His Thr Tyr Ile Lys Gly Thr  
 65 70 75 80  
 Leu Arg Val Tyr Thr Lys Lys Phe Cys Met Leu Val Ile Lys Ser Phe  
 85 90 95  
 Glu Ser Lys Ser Cys Val Cys Val Tyr Asp Phe Asp Ser Lys Ser Ser  
 100 105 110  
 Val Asn Val Thr Val  
 115 117

<210> 1356  
 <211> 126  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1356  
 Pro Arg Val Arg Phe Arg Leu Leu His Val Thr Ser Ile Arg Ser Ala  
 1 5 10 15  
 Trp Ile Leu Cys Gly Ile Ile Trp Ile Leu Ile Met Ala Ser Ser Ile  
 20 25 30  
 Met Leu Leu Asp Ser Gly Ser Glu Gln Asn Gly Ser Val Thr Ser Cys  
 35 40 45  
 Leu Glu Leu Asn Leu Tyr Lys Ile Ala Lys Leu Gln Thr Val Asn Tyr  
 50 55 60  
 Ile Ala Leu Val Val Gly Cys Leu Leu Pro Phe Phe Thr Leu Ser Ile  
 65 70 75 80  
 Cys Tyr Leu Leu Ile Ile Arg Val Leu Leu Lys Val Glu Val Pro Glu  
 85 90 95  
 Ser Gly Leu Arg Val Ser His Arg Lys Ala Leu Thr Thr Ile Ile Ile  
 100 105 110  
 Thr Leu Ile Ile Phe Phe Leu Cys Phe Leu Pro Tyr His Thr  
 115 120 125 126

<210> 1357  
 <211> 222  
 <212>Amino acid  
 <213> Homo sapiens

&lt;400&gt; 1357

```

Gly Arg His Trp Leu Gly Ser Ala Gln Leu Thr Asp Gly Gly Ser Ala
 1           5           10           15
Arg Lys Pro Lys Met Ala Val Pro Ala Ala Leu Ile Leu Arg Glu Ser
      20           25           30
Pro Ser Met Lys Lys Ala Val Ser Leu Ile Asn Ala Ile Asp Thr Gly
      35           40           45
Arg Phe Pro Arg Leu Leu Thr Arg Ile Leu Gln Lys Leu His Leu Lys
      50           55           60
Ala Glu Ser Ser Phe Ser Glu Glu Glu Glu Glu Lys Leu Gln Ala Ala
      65           70           75           80
Phe Ser Leu Glu Lys Gln Asp Leu His Leu Val Leu Glu Thr Ile Ser
      85           90           95
Phe Ile Leu Glu Gln Ala Val Tyr His Asn Val Lys Pro Ala Ala Leu
      100          105          110
Gln Gln Gln Leu Glu Asn Ile His Leu Arg Gln Asp Lys Ala Glu Ala
      115          120          125
Phe Val Asn Thr Trp Ser Ser Met Gly Gln Glu Thr Val Glu Lys Phe
      130          135          140
Arg Gln Arg Ile Leu Ala Pro Cys Lys Leu Glu Thr Val Gly Trp Gln
      145          150          155          160
Leu Asn Leu Gln Met Ala His Ser Ala Gln Ala Lys Leu Lys Ser Pro
      165          170          175
Gln Ala Val Leu Gln Leu Gly Val Asn Asn Glu Asp Ser Lys Ser Leu
      180          185          190
Glu Lys Val Leu Val Glu Phe Ser His Lys Glu Leu Phe Asp Phe Tyr
      195          200          205
Asn Lys Leu Glu Thr Ile Gln Ala Gln Leu Asp Ser Leu Thr
      210          215          220          222

```

&lt;210&gt; 1358

&lt;211&gt; 116

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1358

```

Glu Ala Ser Ser Ala Lys Thr Lys Arg Lys Glu Glu Lys Gly Pro Lys
 1           5           10           15
Ala Lys Met Lys Leu Met Val Leu Val Phe Thr Ile Gly Leu Thr Leu
      20           25           30
Leu Leu Gly Val Gln Ala Met Pro Ala Asn Arg Leu Ser Cys Tyr Arg
      35           40           45
Lys Ile Leu Lys Asp His Asn Cys His Asn Leu Pro Glu Gly Val Ala
      50           55           60
Asp Leu Thr Gln Ile Asp Val Asn Val Gln Asp His Phe Trp Asp Gly
      65           70           75           80
Lys Gly Cys Glu Met Ile Cys Tyr Cys Asn Phe Ser Glu Leu Leu Cys
      85           90           95
Cys Pro Lys Asp Val Phe Phe Gly Pro Lys Ile Ser Phe Val Ile Pro
      100          105          110
Cys Asn Asn Gln
      115 116

```

&lt;210&gt; 1359

<211> 466  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1359  
 Lys Met Ala Glu Ala Val Phe His Ala Pro Lys Arg Lys Arg Arg Val  
 1 5 10 15  
 Tyr Glu Thr Tyr Glu Ser Pro Leu Pro Ile Pro Phe Gly Gln Asp His  
 20 25 30  
 Gly Pro Leu Lys Glu Phe Lys Ile Phe Arg Ala Glu Met Ile Asn Asn  
 35 40 45  
 Asn Val Ile Val Arg Asn Ala Glu Asp Ile Glu Gln Leu Tyr Gly Lys  
 50 55 60  
 Gly Tyr Phe Gly Lys Gly Ile Leu Ser Arg Ser Arg Pro Ser Phe Thr  
 65 70 75 80  
 Ile Ser Asp Pro Lys Leu Val Ala Lys Trp Lys Asp Met Lys Thr Asn  
 85 90 95  
 Met Pro Ile Ile Thr Ser Lys Arg Tyr Gln His Ser Val Glu Trp Ala  
 100 105 110  
 Ala Glu Leu Met Arg Arg Gln Gly Gln Asp Glu Ser Thr Val Arg Arg  
 115 120 125  
 Ile Leu Lys Asp Tyr Thr Lys Pro Leu Glu His Pro Pro Val Lys Arg  
 130 135 140  
 Asn Glu Glu Ala Gln Val His Asp Lys Leu Asn Ser Gly Met Val Ser  
 145 150 155 160  
 Asn Met Glu Gly Thr Ala Gly Gly Glu Arg Pro Ser Val Val Asn Gly  
 165 170 175  
 Asp Ser Gly Lys Ser Gly Gly Val Gly Asp Pro Arg Glu Pro Leu Gly  
 180 185 190  
 Cys Leu Gln Glu Gly Ser Gly Cys His Pro Thr Thr Glu Ser Phe Glu  
 195 200 205  
 Lys Ser Val Arg Glu Asp Ala Ser Pro Leu Pro His Val Cys Cys Cys  
 210 215 220  
 Lys Gln Asp Ala Leu Ile Leu Gln Arg Gly Leu His His Glu Asp Gly  
 225 230 235 240  
 Ser Gln His Ile Gly Leu Leu His Pro Gly Asp Arg Gly Pro Asp His  
 245 250 255  
 Glu Tyr Val Leu Val Glu Glu Ala Glu Cys Ala Met Ser Glu Arg Glu  
 260 265 270  
 Ala Ala Pro Asn Glu Glu Leu Val Gln Arg Asn Arg Leu Ile Cys Arg  
 275 280 285  
 Arg Asn Pro Tyr Arg Ile Phe Glu Tyr Leu Gln Leu Ser Leu Glu Glu  
 290 295 300  
 Ala Phe Phe Leu Val Tyr Ala Leu Gly Cys Leu Ser Ile Tyr Tyr Glu  
 305 310 315 320  
 Lys Glu Pro Leu Thr Ile Val Lys Leu Trp Lys Ala Phe Thr Val Val  
 325 330 335  
 Gln Pro Thr Phe Arg Thr Thr Tyr Met Ala Tyr His Tyr Phe Arg Ser  
 340 345 350  
 Lys Gly Trp Val Pro Lys Val Gly Leu Lys Tyr Gly Thr Asp Leu Leu  
 355 360 365  
 Leu Tyr Arg Lys Gly Pro Pro Phe Tyr His Ala Ser Tyr Ser Val Ile  
 370 375 380  
 Ile Glu Leu Val Asp Asp His Phe Glu Gly Ser Leu Arg Arg Pro Leu  
 385 390 395 400  
 Ser Trp Lys Ser Leu Ala Ala Leu Ser Arg Val Ser Val Asn Val Ser  
 405 410 415  
 Lys Glu Leu Met Leu Cys Tyr Leu Ile Lys Pro Ser Thr Met Thr Asp  
 420 425 430  
 Lys Glu Met Glu Ser Pro Glu Cys Met Lys Arg Ile Lys Val Gln Glu

435 440 445  
 Val Ile Leu Ser Arg Trp Val Ser Ser Arg Glu Arg Ser Asp Gln Asp  
 450 455 460  
 Asp Leu  
 465 466

<210> 1360  
 <211> 419  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1360  
 Arg Asp Ile Trp Thr Met Asn Leu Gln Arg Tyr Trp Gly Glu Ile Pro  
 1 5 10 15  
 Ile Ser Ser Ser Gln Thr Asn Arg Ser Ser Phe Asp Leu Leu Pro Arg  
 20 25 30  
 Glu Phe Arg Leu Val Glu Val His Asp Pro Pro Leu His Gln Pro Ser  
 35 40 45  
 Ala Asn Lys Pro Lys Pro Pro Thr Met Leu Asp Ile Pro Ser Glu Pro  
 50 55 60  
 Cys Ser Leu Thr Ile His Thr Ile Gln Leu Ile Gln His Asn Arg Arg  
 65 70 75 80  
 Leu Arg Asn Leu Ile Ala Thr Ala Gln Ala Gln Asn Gln Gln Gln Thr  
 85 90 95  
 Glu Gly Val Lys Thr Glu Glu Ser Glu Pro Leu Pro Ser Cys Pro Gly  
 100 105 110  
 Ser Pro Pro Leu Pro Asp Asp Leu Leu Pro Leu Asp Cys Lys Asn Pro  
 115 120 125  
 Asn Ala Pro Phe Gln Ile Arg His Ser Asp Pro Glu Ser Asp Phe Tyr  
 130 135 140  
 Arg Gly Lys Gly Glu Pro Val Thr Glu Leu Ser Trp His Ser Cys Arg  
 145 150 155 160  
 Gln Leu Leu Tyr Gln Ala Val Ala Thr Ile Leu Ala His Ala Gly Phe  
 165 170 175  
 Asp Cys Ala Asn Glu Ser Val Leu Glu Thr Leu Thr Asp Val Ala His  
 180 185 190  
 Glu Tyr Cys Leu Lys Phe Thr Lys Leu Leu Arg Phe Ala Val Asp Arg  
 195 200 205  
 Glu Ala Arg Leu Gly Gln Thr Pro Phe Pro Asp Val Met Glu Gln Val  
 210 215 220  
 Phe His Glu Val Gly Ile Gly Ser Val Leu Ser Leu Gln Lys Phe Trp  
 225 230 235 240  
 Gln His Arg Ile Lys Asp Tyr His Ser Tyr Met Leu Gln Ile Ser Lys  
 245 250 255  
 Gln Leu Ser Glu Glu Tyr Glu Arg Ile Val Asn Pro Glu Lys Ala Thr  
 260 265 270  
 Glu Asp Ala Lys Pro Val Lys Ile Lys Glu Glu Pro Val Ser Asp Ile  
 275 280 285  
 Thr Phe Pro Val Ser Glu Glu Leu Glu Ala Asp Leu Ala Ser Gly Asp  
 290 295 300  
 Gln Ser Leu Pro Met Gly Val Leu Gly Ala Gln Ser Glu Arg Phe Pro  
 305 310 315 320  
 Ser Asn Leu Glu Val Glu Ala Ser Pro Gln Ala Ser Ser Ala Glu Val  
 325 330 335  
 Asn Ala Ser Pro Leu Trp Asn Leu Ala His Val Lys Met Glu Pro Gln  
 340 345 350  
 Glu Ser Glu Glu Gly Asn Val Ser Gly His Gly Val Leu Gly Ser Asp  
 355 360 365  
 Val Phe Glu Glu Pro Met Ser Gly Met Ser Glu Ala Gly Ile Pro Gln



```

      370              375              380
Ser Pro Asp Asp Ser Asp Ser Ser Tyr Gly Ser His Ser Thr Asp Ser
385              390              395              400
Leu Met Gly Ser Ser Pro Val Phe Asn Gln Arg Cys Lys Lys Arg Met
      405              410              415
Arg Lys Ile
      419

```

```

<210> 1361
<211> 220
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1361
Arg Glu Gln Ile Leu Phe Ile Glu Ile Arg Asp Thr Ala Lys Gly Gly
 1              5              10              15
Glu Thr Glu Gln Pro Pro Ser Leu Ser Pro Leu His Gly Gly Arg Met
      20              25              30
Pro Glu Met Gly Glu Gly Ile Gln Ser Leu Ala Arg Glu Thr Gln Ser
      35              40              45
His Arg Gly Arg Arg Gln Gly Trp Asp Ala Thr Trp Val Thr Arg Cys
      50              55              60
Arg Glu Ser Leu Asn Arg Gly Gly Ala Gly Ala Gly Lys Arg Ala Gly
      65              70              75              80
Ala Leu Ala His His Val Phe Leu Ala Leu Ile Glu Pro Asn Leu Ala
      85              90              95
Glu Arg Glu Ala Ser Glu Glu Glu Val Lys Ala Cys Ser Asp Glu Thr
      100              105              110
Val Val Ala Asp Leu Leu Val Lys Val Val Tyr Val Leu Gly Ala Ile
      115              120              125
Leu Lys Ile Phe Leu Arg Glu Gly Asn Val Leu Asn Gln His Ser Gly
      130              135              140
Met Asp Ile Glu Lys Tyr Ser Glu His Tyr Gln His Asp His Ser Pro
      145              150              155              160
Gly Ala Glu Asp Asp Ala Ala Gly Gly Gln Leu Arg Pro Thr Ala Gln
      165              170              175
Glu Arg Arg His Lys Glu Gly Ser Arg Gly Ser Pro Arg Cys Lys Arg
      180              185              190
Ala Arg Lys Ala Val Gly Glu Ser Pro Gly Cys Pro Arg Pro Arg Val
      195              200              205
Arg Pro Arg Val Arg Pro Arg Val Arg Pro Arg Val
      210              215              220

```

```

<210> 1362
<211> 82
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1362
Gly Thr Arg Gly Cys Cys Arg Glu Gly Thr Ala Tyr Ala Lys Ala Tyr
 1              5              10              15
Gln Phe Met Ala Ser His Leu Ser Leu Gly Lys Pro Val Ser Thr Gly
      20              25              30
Ser Ile Pro Arg Phe Asn Lys Ala Leu Phe Asn Lys Gln Ala Lys Cys

```

```

          35          40          45
Lys Pro Asn His Tyr Ser Phe Ile Gly Leu Ser Met Leu Ser Pro Glu
          50          55          60
Asn Phe Ser Ile Gly Cys Lys Tyr Ser Val Trp Phe Ser Glu Thr Lys
        65          70          75          80
Gly Phe
          82

```

<210> 1363  
 <211> 143  
 <212>Amino acid  
 <213> Homo sapiens

```

          <400> 1363
Gly Ala Gln Gly Val Arg Val Gly Ile Gly Glu Val Gly Arg Val Gln
  1          5          10          15
Ala Pro Arg Val Ser Leu Leu His Ser Gln Gly Val Pro Arg Gly Gly
          20          25          30
Thr Gly Glu Ala Val Lys Glu Glu Gly Arg Gly Ser Ser Leu His Pro
          35          40          45
Pro Leu Pro Pro Gln Gly Leu Gly Glu Tyr Ala Ala Cys Gln Ser His
          50          55          60
Ala Phe Met Lys Gly Val Phe Thr Phe Val Thr Gly Thr Gly Met Ala
          65          70          75          80
Phe Gly Leu Gln Met Phe Ile Gln Arg Lys Phe Pro Tyr Pro Leu Gln
          85          90          95
Trp Ser Leu Leu Val Ala Val Val Ala Gly Ser Val Val Ser Tyr Gly
          100          105          110
Val Thr Arg Val Glu Ser Glu Lys Cys Asn Asn Leu Trp Leu Phe Leu
          115          120          125
Glu Thr Gly Gln Leu Pro Lys Asp Arg Ser Thr Asp Gln Arg Ser
          130          135          140          143

```

<210> 1364  
 <211> 194  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(194)  
 <223> X = any amino acid or stop code

```

          <400> 1364
Gly Thr Ser Glu Leu Leu Cys Ile Gln Arg Trp Asn Trp Gly Pro Ala
  1          5          10          15
Phe Pro Pro Arg Pro Gly Leu Ala Leu Ala Pro Thr Leu Gln Leu Leu
          20          25          30
Val Glu Met Gly Ser Ala Lys Ser Val Pro Val Thr Pro Ala Arg Pro
          35          40          45
Pro Pro His Asn Lys His Leu Ala Arg Val Ala Asp Pro Arg Ser Pro
          50          55          60
Ser Ala Gly Ile Leu Arg Thr Pro Ile Gln Val Glu Ser Ser Pro Gln
          65          70          75          80

```

```

Pro Gly Leu Pro Ala Gly Glu Gln Leu Glu Gly Leu Lys His Ala Gln
      85                      90                      95
Asp Ser Asp Pro Arg Ser Pro Leu Gly Lys Asn Xaa Gly His Gly Trp
      100                    105                    110
Gln Val Gly Gln Gly Ser Asp Leu Gly Ser Pro Gln Pro Leu Pro Pro
      115                    120                    125
Ser Ala Ser His Leu Tyr Ser Ser Arg Ala Ser Arg Cys Ser Gln Pro
      130                    135                    140
Pro Cys Leu Ser Leu Pro Trp Phe Gly Val Arg Ser Ser Pro Ala Asn
      145                    150                    155                    160
Thr Tyr His Val Pro Val Thr Ser Leu Cys Pro Ser Pro Ala Leu His
      165                    170                    175
Tyr Thr Ala Leu Gln Ala Gly Ile Ile Ser Thr Ser Gln Ala Arg Ala
      180                    185                    190
Pro Arg
      194

```

```

<210> 1365
<211> 114
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(114)
<223> X = any amino acid or stop code

```

```

<400> 1365
Pro Leu Leu Leu Pro Arg Phe Ile Asp Ile Pro Cys Leu Leu Cys Tyr
  1          5          10          15
Leu Thr Gln Val Thr Pro Asp Asp Met Tyr Ala Lys Ala Phe Leu Ile
      20          25          30
Lys Pro Asn Thr Ala Ile Thr Gly Thr Asp Arg Arg Lys Leu Arg Ala
      35          40          45
Asp Glu Thr Thr Asp Phe Pro Thr Leu Gly Thr Asp Gln Ile Tyr Glu
      50          55          60
Leu Leu Pro Gly Lys Asp Glu Leu Asn Ile Val Lys Ser Asn Ala His
      65          70          75          80
Lys Arg Asp Ala Xaa Thr Ala Tyr Val Ser Gly Glu Asn His Ile Leu
      85          90          95
Ser Glu Pro Xaa Lys Asn Leu Tyr Pro Ala Val Asn Thr Leu Ser Ser
      100         105         110
Tyr Pro
      114

```

```

<210> 1366
<211> 80
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1366
Ser Arg Gln Pro Pro Leu Leu Thr Met Val Phe Leu Leu Glu Phe
  1          5          10          15
Leu Phe Leu Val Phe Phe Pro Gly Cys Val Asn Gln Leu Leu Leu Ser

```

		20					25				30								
Tyr	Pro	Trp	Gln	Gly	Gln	Gly	Thr	Ser	Leu	Trp	Ser	Ser	Leu	Ser	Phe				
		35					40					45							
His	Trp	Leu	Leu	Pro	Gln	Glu	Asp	Ser	Ser	Arg	Leu	Ser	Ile	Phe	Pro				
		50				55					60								
Leu	Arg	Ala	Gly	Ser	Pro	Pro	Gln	Pro	Ala	Gln	Ala	Pro	Gln	Arg	Ile				
		65				70				75					80				

<210> 1367  
 <211> 301  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1367

Lys	Ser	Arg	Glu	Gln	Ser	Ser	Leu	Phe	Ala	Ala	Asp	Ala	Glu	Arg	Ser				
1				5					10					15					
Trp	Gly	Gly	Lys	Ser	Cys	Cys	Leu	Leu	Arg	Trp	Arg	Phe	Val	Gly	Lys				
		20					25					30							
Ala	Ser	His	Phe	Pro	Arg	Leu	Leu	Pro	Leu	Pro	Gly	Glu	Glu	Arg	Pro				
		35				40					45								
Glu	Thr	Lys	Glu	Arg	Ala	Trp	Lys	Met	Glu	Gln	Thr	Trp	Thr	Arg	Asp				
	50					55				60									
Tyr	Phe	Ala	Glu	Asp	Asp	Gly	Glu	Met	Val	Pro	Arg	Thr	Ser	His	Thr				
	65				70				75					80					
Ala	Ala	Ser	Val	Ser	Leu	Thr	Ala	Phe	Leu	Ser	Asp	Thr	Lys	Asp	Arg				
			85				90							95					
Gly	Pro	Pro	Val	Gln	Ser	Gln	Ile	Trp	Arg	Ser	Gly	Glu	Lys	Val	Pro				
		100					105					110							
Phe	Val	Gln	Thr	Tyr	Ser	Leu	Arg	Ala	Phe	Glu	Lys	Pro	Pro	Gln	Val				
	115					120				125									
Gln	Thr	Gln	Ala	Leu	Arg	Asp	Phe	Glu	Lys	His	Leu	Asn	Asp	Leu	Lys				
	130				135					140									
Lys	Glu	Asn	Phe	Ser	Leu	Lys	Leu	Leu	Ile	Tyr	Phe	Leu	Glu	Glu	Arg				
	145				150				155					160					
Met	Gln	Gln	Lys	Tyr	Glu	Ala	Ser	Arg	Glu	Asp	Ile	Tyr	Lys	Arg	Asn				
		165					170						175						
Thr	Glu	Leu	Lys	Val	Glu	Val	Glu	Ser	Leu	Lys	Arg	Glu	Leu	Gln	Asp				
		180					185						190						
Lys	Lys	Gln	His	Leu	Asp	Lys	Thr	Trp	Ala	Asp	Val	Glu	Asn	Leu	Asn				
	195					200					205								
Ser	Gln	Asn	Glu	Ala	Glu	Leu	Arg	Arg	Gln	Phe	Glu	Glu	Arg	Gln	Gln				
	210				215					220									
Glu	Met	Glu	His	Val	Tyr	Glu	Leu	Leu	Glu	Asn	Lys	Met	Gln	Leu	Leu				
	225				230				235					240					
Gln	Glu	Glu	Ser	Arg	Leu	Ala	Lys	Asn	Glu	Ala	Ala	Arg	Met	Ala	Ala				
		245					250						255						
Leu	Val	Glu	Ala	Glu	Lys	Glu	Cys	Asn	Leu	Glu	Leu	Ser	Glu	Lys	Leu				
	260					265					270								
Lys	Gly	Val	Thr	Lys	Asn	Trp	Glu	Asp	Val	Pro	Gly	Asp	Gln	Val	Lys				
	275				280						285								
Pro	Asp	Gln	Tyr	Thr	Glu	Ala	Leu	Ala	Gln	Arg	Asp	Lys							
	290				295						300	301							

<210> 1368  
 <211> 308  
 <212>Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(308)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1368

```

Thr Arg Arg Arg Gly Thr Thr Trp Arg Ser Pro Arg Pro Arg Arg Ala
 1          5          10          15
Ser Thr Ser Arg Pro Ser Thr Arg Pro Arg Gly Val Ala Ser Trp Pro
          20          25          30
Trp Glu Thr Ala Gly Thr Ala Thr Thr Gly Pro Gly Pro Ser Ala Arg
          35          40          45
Thr Arg Arg Arg Ala Ala Arg Arg Arg Ser Arg Pro Arg Arg Arg
 50          55          60
Ala His Gly Gly Leu Ser Gln Pro Ala Gly Trp Gln Ser Leu Leu Ser
 65          70          75          80
Phe Thr Ile Leu Phe Leu Ala Trp Leu Ala Gly Phe Ser Ser Arg Leu
          85          90          95
Phe Ala Val Ile Arg Phe Glu Ser Ile Ile His Glu Phe Asp Pro Trp
          100          105          110
Phe Asn Tyr Arg Ser Thr His His Leu Ala Ser His Gly Phe Tyr Glu
          115          120          125
Phe Leu Asn Trp Phe Asp Glu Arg Ala Trp Tyr Pro Leu Gly Arg Ile
          130          135          140
Val Gly Gly Thr Val Tyr Pro Gly Leu Met Ile Thr Ala Gly Leu Ile
145          150          155          160
His Trp Ile Leu Asn Thr Leu Asn Ile Thr Val His Ile Arg Asp Val
          165          170          175
Cys Val Phe Leu Ala Pro Thr Phe Ser Gly Leu Thr Ser Ile Ser Thr
          180          185          190
Phe Leu Leu Thr Arg Glu Leu Trp Asn Gln Gly Ala Gly Leu Leu Ala
          195          200          205
Ala Cys Phe Ile Ala Ile Val Pro Gly Tyr Ile Ser Arg Ser Val Ala
          210          215          220
Gly Ser Phe Asp Asn Glu Gly Ile Ala Ile Phe Ala Leu Gln Phe Thr
225          230          235          240
Tyr Tyr Leu Trp Val Lys Ser Val Lys Thr Gly Ser Val Phe Trp Thr
          245          250          255
Met Cys Cys Cys Leu Ser Tyr Phe Tyr Met Val Ser Ala Trp Gly Gly
          260          265          270
Tyr Val Phe Ile Ile Asn Leu Ile Pro Leu His Ala Phe Val Leu Val
          275          280          285
Leu Met Gln Arg Tyr Ser Lys Arg Val Tyr Ile Xaa Tyr Ser Thr Phe
          290          295          300
Tyr Ile Val Gly
305          308

```

&lt;210&gt; 1369

&lt;211&gt; 212

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1369

```

Arg Arg Leu Ile Val Val Leu Ser Asp Ala Phe Leu Ser Arg Ala Trp
 1           5           10           15
Cys Ser His Ser Phe Arg Val Gly Pro Ala Arg Gly Trp Val Gly Pro
          20           25           30
Ser Val Ala Pro Thr Pro Leu Thr Val Pro Pro Arg Arg Glu Gly Leu
          35           40           45
Cys Arg Leu Leu Glu Leu Thr Arg Arg Pro Ile Phe Ile Thr Phe Glu
          50           55           60
Gly Gln Arg Arg Asp Pro Ala His Pro Ala Leu Arg Leu Leu Arg Gln
          65           70           75           80
His Arg His Leu Val Thr Leu Leu Leu Trp Arg Pro Gly Ser Val Thr
          85           90           95
Pro Ser Ser Asp Phe Trp Lys Glu Val Gln Leu Ala Leu Pro Arg Lys
          100          105          110
Val Arg Tyr Arg Pro Val Glu Gly Asp Pro Gln Thr Gln Leu Gln Asp
          115          120          125
Asp Lys Asp Pro Met Leu Ile Leu Arg Gly Arg Val Pro Glu Gly Arg
          130          135          140
Ala Leu Asp Ser Glu Val Asp Pro Asp Pro Glu Gly Asp Leu Gly Val
          145          150          155          160
Arg Gly Pro Val Phe Gly Glu Pro Ser Ala Pro Pro His Thr Ser Gly
          165          170          175
Val Ser Leu Gly Glu Ser Arg Ser Ser Glu Val Asp Val Ser Asp Leu
          180          185          190
Gly Ser Arg Asn Tyr Ser Ala Arg Thr Asp Phe Tyr Cys Leu Val Ser
          195          200          205
Lys Asp Asp Met
          210          212

```

<210> 1370  
 <211> 281  
 <212> Amino acid  
 <213> Homo sapiens

```

          <400> 1370
Leu Ser His Glu Gly Trp Arg Arg Gly Arg Glu Gly Glu Arg Ile Asn
 1           5           10           15
Ser Ser Val Ala Ser Leu Ala Pro Leu Cys Ile Leu Pro Asp Leu Pro
          20           25           30
Ser Asn Met His Leu Ala Arg Leu Val Gly Ser Cys Ser Leu Leu Leu
          35           40           45
Leu Leu Gly Ala Leu Ser Gly Trp Ala Ala Ser Asp Asp Pro Ile Glu
          50           55           60
Lys Val Ile Glu Gly Ile Asn Arg Gly Leu Ser Asn Ala Glu Arg Glu
          65           70           75           80
Val Gly Lys Ala Leu Asp Gly Ile Asn Ser Gly Ile Thr His Ala Gly
          85           90           95
Arg Glu Val Glu Lys Val Phe Asn Gly Leu Ser Asn Met Gly Ser His
          100          105          110
Thr Gly Lys Glu Leu Asp Lys Gly Val Gln Gly Leu Asn His Gly Met
          115          120          125
Asp Lys Val Ala His Glu Ile Asn His Gly Ile Gly Gln Ala Gly Lys
          130          135          140
Glu Ala Glu Lys Leu Gly His Gly Val Asn Asn Ala Ala Gly Gln Ala
          145          150          155          160
Gly Lys Glu Ala Asp Lys Ala Val Gln Gly Phe His Thr Gly Val His
          165          170          175
Gln Ala Gly Lys Glu Ala Glu Lys Leu Gly Gln Gly Val Asn His Ala
          180          185          190

```

Ala	Asp	Gln	Ala	Gly	Lys	Glu	Val	Glu	Lys	Leu	Gly	Gln	Gly	Ala	His
	195						200					205			
His	Ala	Ala	Gly	Gln	Ala	Gly	Lys	Glu	Leu	Gln	Asn	Ala	His	Asn	Gly
	210					215				220					
Val	Asn	Gln	Ala	Ser	Lys	Glu	Ala	Asn	Gln	Leu	Leu	Asn	Gly	Asn	His
	225				230					235					240
Gln	Ser	Gly	Ser	Ser	Ser	His	Gln	Gly	Gly	Ala	Thr	Thr	Thr	Pro	Leu
				245					250					255	
Ala	Ser	Gly	Ala	Ser	Val	Asn	Thr	Pro	Phe	Ile	Asn	Leu	Pro	Ala	Leu
			260					265						270	
Trp	Arg	Ser	Val	Ala	Asn	Ile	Met	Pro							
		275					280	281							

<210> 1371  
 <211> 119  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1371

Ser	Ala	Ser	Gly	Gly	Leu	Gly	Met	Thr	Val	Glu	Gly	Pro	Glu	Gly	Ser
1				5					10					15	
Glu	Arg	Glu	His	Arg	Pro	Pro	Glu	Lys	Pro	Pro	Arg	Pro	Pro	Arg	Pro
			20					25					30		
Leu	His	Leu	Ser	Asp	Arg	Ser	Phe	Arg	Arg	Lys	Lys	Asp	Ser	Val	Glu
		35					40					45			
Ser	His	Pro	Thr	Trp	Val	Asp	Asp	Thr	Arg	Ile	Asp	Ala	Asp	Ala	Ile
	50					55					60				
Val	Glu	Lys	Ile	Val	Gln	Ser	Gln	Asp	Phe	Thr	Asp	Gly	Ser	Asn	Thr
	65				70					75				80	
Glu	Asp	Ser	Asn	Leu	Arg	Leu	Phe	Val	Ser	Arg	Asp	Gly	Ser	Ala	Thr
			85					90						95	
Leu	Ser	Gly	Ile	Gln	Leu	Ala	Thr	Arg	Val	Ser	Ser	Gly	Val	Tyr	Glu
		100					105						110		
Pro	Val	Val	Ile	Glu	Ser	His									
		115				119									

<210> 1372  
 <211> 108  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1372

Glu	Arg	Ser	Gly	Trp	Pro	Gln	Pro	Glu	Gly	Thr	Val	Thr	Ala	Gln	Gly
1				5					10					15	
Pro	Leu	Phe	Trp	Glu	Arg	Leu	Ser	Gly	Ala	Val	Thr	Val	Ser	Ser	Gly
			20					25					30		
Tyr	Lys	Ala	Asp	Met	Trp	Pro	Ser	Phe	Pro	Gln	Val	Arg	Val	Gly	Ser
		35				40						45			
Phe	Leu	Phe	Gly	Ile	Leu	Phe	Phe	Ser	Phe	Gly	Ser	Ser	Ser	Leu	Pro
	50				55					60					
Pro	Gly	Leu	Pro	Pro	Pro	Ala	Ser	Leu	Leu	Cys	Cys	Ala	Val	Gln	Trp
	65				70				75					80	
Gly	Ala	Arg	Ala	Leu	Phe	Leu	Pro	Cys	Leu	Lys	Glu	Arg	Ala	Leu	Gly
			85					90						95	

Met Glu Met Arg Asn Asn Thr Leu Ser Phe Arg Gln  
 100 105 108

<210> 1373  
 <211> 209  
 <212>Amino acid  
 <213> Homo sapiens  
 <220>  
 <221> misc\_feature  
 <222> (1)...(209)  
 <223> X = any amino acid or stop code

<400> 1373  
 Ser Ser Ser Asn Leu Arg Leu Ser Phe Leu Ile Asn Glu Asn Ile Leu  
 1 5 10 15  
 Gly Lys Cys Phe Arg Ser Gly Pro Ser Cys Ala Gly Pro Arg Ile Ser  
 20 25 30  
 Pro Leu Ala Ala Gln Tyr Glu Cys Pro Arg Pro Ser Leu Leu Ile Met  
 35 40 45  
 Ala Ser Val Pro Lys Thr Asn Lys Ile Glu Pro Arg Ser Tyr Ser Ile  
 50 55 60  
 Ile Pro Ser Cys Gly Ile Arg Arg Leu Gly Pro Ala Leu Asn Thr Leu  
 65 70 75 80  
 Ile Phe Gln Ser Lys Arg Phe Gly Pro Arg Gly His Ser Ala Lys Ser  
 85 90 95  
 Ile Glu Gly Ala Pro Arg Gly Lys Gly Arg Gly Arg Ala Val Ala Arg  
 100 105 110  
 Leu Ala Ala Asp Arg Pro Pro Ala Pro Lys Ile Gln Leu Arg Ala Phe  
 115 120 125  
 Xaa Leu Gln Gln Leu Xaa Tyr Thr Leu Leu Glu Leu Glu Leu Pro Arg  
 130 135 140  
 Leu Leu Ala Pro Asp Leu Pro Ser Asn Gly Ser Ser Leu Lys Asp Leu  
 145 150 155 160  
 Lys Trp Thr His Ser Asn Tyr Arg Ala Ser Lys Glu Ser Cys Ile Val  
 165 170 175  
 Ile Phe Val Thr Thr Ser Pro Gly Arg Glu Trp Val Ile Cys Ala Leu  
 180 185 190  
 Ala Ala Phe Leu Gly Cys Gly Ser Leu Ser Gln Ala Pro Ser Pro Glu  
 195 200 205  
 Ser  
 209

<210> 1374  
 <211> 153  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1374  
 Leu Arg Ile Ile Asn Thr Tyr Phe Cys Phe Lys Phe Leu Ile Val Asn  
 1 5 10 15  
 Tyr Ile His Gly Thr Thr Lys Ala Arg Lys Pro His Val Leu Gly Glu  
 20 25 30  
 Ser Leu Ile Ser Ala Met Ser Arg Gln Glu Pro Lys Met Phe Val Leu



```

      35      40      45
Leu Tyr Val Thr Ser Phe Ala Ile Cys Ala Ser Gly Gln Pro Arg Gly
  50      55      60
Asn Gln Leu Lys Gly Glu Asn Tyr Ser Pro Arg Tyr Ile Cys Ser Ile
  65      70      75      80
Pro Gly Leu Pro Gly Pro Pro Gly Pro Pro Gly Ala Asn Gly Ser Pro
      85      90      95
Gly Pro His Gly Arg Ile Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly
  100      105      110
Arg Lys Gly Glu Lys Gly Glu Lys Gly Thr Ala Gly Leu Arg Gly Lys
  115      120      125
Thr Gly Pro Leu Gly Leu Ala Gly Glu Lys Gly Asp Gln Gly Glu Thr
  130      135      140
Gly Lys Lys Gly Pro Ile Gly Pro Glu
145      150      153

```

<210> 1375  
 <211> 149  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 1375
Phe Ala Ser Ala Met Leu Gly Ser Arg Val Asp Arg Pro Lys Leu Ser
  1      5      10      15
Val Ala Pro Ser Val Val Leu Glu Glu Asp Gln Val Leu Val Ser Pro
      20      25      30
Ala Val Asp Leu Glu Ala Gly Cys Arg Leu Arg Asp Phe Thr Glu Lys
  35      40      45
Ile Met Asn Val Lys Gly Lys Val Ile Leu Ser Met Leu Val Val Ser
  50      55      60
Thr Val Ile Ile Val Phe Trp Glu Phe Ile Asn Ser Thr Glu Gly Ser
  65      70      75      80
Phe Leu Trp Ile Tyr His Ser Lys Asn Pro Glu Val Asp Asp Ser Ser
      85      90      95
Ala Gln Lys Gly Trp Trp Phe Leu Ser Trp Phe Asn Asn Gly Ile His
  100      105      110
Asn Tyr Gln Gln Gly Glu Glu Asp Ile Asp Lys Glu Lys Gly Arg Glu
  115      120      125
Glu Thr Lys Gly Arg Lys Met Thr Gln Gln Ser Phe Gly Tyr Gly Thr
  130      135      140
Gly Leu Ile Gln Thr
145      149

```

<210> 1376  
 <211> 416  
 <212>Amino acid  
 <213> Homo sapiens

```

      <400> 1376
Gly Ser His Arg Phe Ser Leu Ala Ser Pro Leu Asp Pro Glu Val Gly
  1      5      10      15
Pro Tyr Cys Asp Thr Pro Thr Met Arg Thr Leu Phe Asn Leu Leu Trp
      20      25      30
Leu Ala Leu Ala Cys Ser Pro Val His Thr Thr Leu Ser Lys Ser Asp

```

	35						40						45					
Ala	Lys	Lys	Ala	Ala	Ser	Lys	Thr	Leu	Leu	Glu	Lys	Ser	Gln	Phe	Ser			
	50					55					60							
Asp	Lys	Pro	Val	Gln	Asp	Arg	Gly	Leu	Val	Val	Thr	Asp	Leu	Lys	Ala			
65					70					75					80			
Glu	Ser	Val	Val	Leu	Glu	His	Arg	Ser	Tyr	Cys	Ser	Ala	Lys	Ala	Arg			
				85				90					95					
Asp	Arg	His	Phe	Ala	Gly	Asp	Val	Leu	Gly	Tyr	Val	Thr	Pro	Trp	Asn			
			100				105					110						
Ser	His	Gly	Tyr	Asp	Val	Thr	Lys	Val	Phe	Gly	Ser	Lys	Phe	Thr	Gln			
		115				120						125						
Ile	Ser	Pro	Val	Trp	Leu	Gln	Leu	Lys	Arg	Arg	Gly	Arg	Glu	Met	Phe			
	130					135					140							
Glu	Val	Thr	Gly	Leu	His	Asp	Val	Asp	Gln	Gly	Trp	Met	Arg	Ala	Val			
145					150					155					160			
Arg	Lys	His	Ala	Lys	Gly	Leu	His	Ile	Val	Pro	Arg	Leu	Leu	Phe	Glu			
				165					170				175					
Asp	Trp	Thr	Tyr	Asp	Asp	Phe	Arg	Asn	Val	Leu	Asp	Ser	Glu	Asp	Glu			
			180				185						190					
Ile	Glu	Glu	Leu	Ser	Lys	Thr	Val	Val	Gln	Val	Ala	Lys	Asn	Gln	His			
		195				200						205						
Phe	Asp	Gly	Phe	Val	Val	Glu	Val	Trp	Asn	Gln	Leu	Leu	Ser	Gln	Lys			
	210					215					220							
Arg	Val	Gly	Leu	Ile	His	Met	Leu	Thr	His	Leu	Ala	Glu	Ala	Leu	His			
225					230					235					240			
Gln	Ala	Arg	Leu	Leu	Ala	Leu	Leu	Val	Ile	Pro	Pro	Ala	Ile	Thr	Pro			
				245					250				255					
Gly	Thr	Asp	Gln	Leu	Gly	Met	Phe	Thr	His	Lys	Glu	Phe	Glu	Gln	Leu			
			260				265						270					
Ala	Pro	Val	Leu	Asp	Gly	Phe	Ser	Leu	Met	Thr	Tyr	Asp	Tyr	Ser	Thr			
		275				280						285						
Ala	His	Gln	Pro	Gly	Pro	Asn	Ala	Pro	Leu	Ser	Trp	Val	Arg	Ala	Cys			
	290					295					300							
Val	Gln	Val	Leu	Asp	Pro	Lys	Ser	Lys	Trp	Arg	Ser	Lys	Ile	Leu	Leu			
305					310					315					320			
Gly	Leu	Asn	Phe	Tyr	Gly	Met	Asp	Tyr	Ala	Thr	Ser	Lys	Asp	Ala	Arg			
				325					330				335					
Glu	Pro	Val	Val	Gly	Ala	Arg	Tyr	Ile	Gln	Thr	Leu	Lys	Asp	His	Arg			
			340				345						350					
Pro	Arg	Met	Val	Trp	Asp	Ser	Gln	Val	Ser	Glu	His	Phe	Phe	Glu	Tyr			
		355				360						365						
Lys	Lys	Ser	Arg	Ser	Gly	Arg	His	Val	Val	Phe	Tyr	Pro	Thr	Leu	Lys			
		370				375					380							
Ser	Leu	Gln	Val	Arg	Leu	Glu	Leu	Ala	Arg	Glu	Leu	Gly	Val	Gly	Val			
385					390					395				</				

<210> 1377

<211> 316

<212>Amino acid

<213> Homo sapiens

<400> 1377

Gly Arg Glu Gly Thr Gly Trp Gly Pro Ala Met Ser Glu Val Thr Arg  
1 5 10 15  
Ser Leu Leu Gln Arg Trp Gly Ala Ser Phe Arg Arg Gly Ala Asp Phe

```

      20      25      30
Asp Ser Trp Gly Gln Leu Val Glu Ala Ile Asp Glu Tyr Gln Ile Leu
      35      40      45
Ala Arg His Leu Gln Lys Glu Ala Gln Ala Gln His Asn Asn Ser Glu
      50      55      60
Phe Thr Glu Glu Gln Lys Lys Thr Ile Gly Lys Ile Ala Thr Cys Leu
      65      70      75      80
Glu Leu Arg Ser Ala Leu Gln Ser Thr Gln Ser Gln Glu Glu Phe
      85      90      95
Lys Leu Glu Asp Leu Lys Lys Leu Glu Pro Ile Leu Lys Asn Ile Leu
      100      105      110
Thr Tyr Asn Lys Glu Phe Pro Phe Asp Val Gln Pro Val Pro Leu Arg
      115      120      125
Arg Ile Leu Ala Pro Gly Glu Glu Glu Asn Leu Glu Phe Glu Glu Asp
      130      135      140
Glu Glu Glu Gly Gly Ala Gly Ala Gly Ser Pro Asp Ser Phe Pro Ala
      145      150      155      160
Arg Val Pro Gly Thr Leu Leu Pro Arg Leu Pro Ser Glu Pro Gly Met
      165      170      175
Thr Leu Leu Thr Ile Arg Ile Glu Lys Ile Gly Leu Lys Asp Ala Gly
      180      185      190
Gln Cys Ile Asn Pro Tyr Ile Thr Val Ser Val Lys Asp Leu Asn Gly
      195      200      205
Ile Asp Leu Thr Pro Val Gln Asp Thr Pro Val Ala Ser Arg Lys Glu
      210      215      220
Asp Thr Tyr Val His Phe Asn Val Asp Ile Glu Leu Gln Lys His Val
      225      230      235      240
Glu Lys Leu Thr Lys Gly Ala Ala Ile Phe Phe Glu Phe Lys His Tyr
      245      250      255
Lys Pro Lys Lys Arg Phe Thr Ser Thr Lys Cys Phe Ala Phe Met Glu
      260      265      270
Met Asp Glu Ile Lys Leu Gly Pro Ile Val Ile Glu Leu Tyr Lys Lys
      275      280      285
Pro Thr Asp Phe Lys Arg Lys Gln Leu Gln Leu Leu Thr Lys Lys Pro
      290      295      300
Leu Tyr Leu His Leu His Gln Thr Leu His Lys Glu
      305      310      315      316

```

&lt;210&gt; 1378

&lt;211&gt; 90

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1378

```

      1      5      10      15
Gly Ser Ile Thr Ser Glu Pro Ser Leu Asp Ser Leu Gln Pro Leu Pro
      20      25      30
Pro Gly Phe Lys Arg Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp
      35      40      45
Tyr Arg Arg Pro Pro Pro Gly Leu Ala Tyr Phe Cys Ile Phe Ser Arg
      50      55      60
Asp Glu Val Ser Pro Cys Trp Pro Gly Cys Ser Pro Ser Pro Asp Leu
      65      70      75      80
Met Ile Arg Leu Pro Arg Pro Pro Ser Val Gly Ile Thr Gly Val Ser
      85      90
His Arg Ala Trp Pro Thr Ile Asp Asn Phe

```

&lt;210&gt; 1379

<211> 332  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1379  
 Lys Met Pro Val Pro Trp Phe Leu Leu Ser Leu Ala Leu Gly Arg Ser  
 1 5 10 15  
 Pro Val Val Leu Ser Leu Glu Arg Leu Val Gly Pro Gln Asp Ala Thr  
 20 25 30  
 His Cys Ser Pro Gly Leu Ser Cys Arg Leu Trp Asp Ser Asp Ile Leu  
 35 40 45  
 Cys Leu Pro Gly Asp Ile Val Pro Ala Pro Gly Pro Val Leu Ala Pro  
 50 55 60  
 Thr His Leu Gln Thr Glu Val Leu Arg Cys Gln Lys Glu Thr Asp  
 65 70 75 80  
 Cys Asp Leu Cys Leu Arg Val Ala Val His Leu Ala Val His Gly His  
 85 90 95  
 Trp Glu Glu Pro Glu Asp Glu Glu Lys Phe Gly Gly Ala Ala Asp Ser  
 100 105 110  
 Gly Val Glu Glu Pro Arg Asn Ala Ser Leu Gln Ala Gln Val Val Leu  
 115 120 125  
 Ser Phe Gln Ala Tyr Pro Thr Ala Arg Cys Val Leu Leu Glu Val Gln  
 130 135 140  
 Val Pro Ala Ala Leu Val Gln Phe Gly Gln Ser Val Gly Ser Val Val  
 145 150 155 160  
 Tyr Asp Cys Phe Glu Ala Ala Leu Gly Ser Glu Val Arg Ile Trp Ser  
 165 170 175  
 Tyr Thr Gln Pro Arg Tyr Glu Lys Glu Leu Asn His Thr Gln Gln Leu  
 180 185 190  
 Pro Asp Cys Arg Gly Leu Glu Val Trp Asn Ser Ile Pro Ser Cys Trp  
 195 200 205  
 Ala Leu Pro Trp Leu Asn Val Ser Ala Asp Gly Asp Asn Val His Leu  
 210 215 220  
 Val Leu Asn Val Ser Glu Glu Gln His Phe Gly Leu Ser Leu Tyr Trp  
 225 230 235 240  
 Asn Gln Val Gln Gly Pro Pro Lys Pro Arg Trp His Lys Asn Leu Val  
 245 250 255  
 Arg Pro Pro Pro Ser Gln Val His Ser His Cys Arg Pro Cys Leu Cys  
 260 265 270  
 Lys Asp Ala Val Pro Tyr Gln Arg Gly Ser Leu Lys Arg Thr His Pro  
 275 280 285  
 Lys Gln Gly Lys Ile Gly Gly Gly Thr Ser Ala Phe Leu Val Ser Leu  
 290 295 300  
 Thr Leu Ala Ser Ser Ser Ser Ser Leu Ser Ser Pro Thr Ser Phe Leu  
 305 310 315 320  
 Tyr Leu Phe His Arg Leu Asp Arg Arg Ser Leu Pro  
 325 330 332

<210> 1380  
 <211> 117  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1380  
 Leu Arg Leu Trp Asn Arg Asn Gln Met Met His Asn Ile Ile Val Lys

```

      1           5           10           15
Glu Leu Ile Val Thr Phe Phe Leu Gly Ile Thr Val Val Gln Met Leu
      20           25           30
Ile Ser Val Thr Gly Leu Lys Gly Val Glu Ala Gln Asn Gly Ser Glu
      35           40           45
Ser Glu Val Phe Val Gly Lys Tyr Glu Thr Leu Val Phe Tyr Trp Pro
      50           55           60
Ser Leu Leu Cys Leu Ala Phe Leu Leu Gly Arg Phe Leu His Met Phe
      65           70           75           80
Val Lys Ala Leu Arg Val His Leu Gly Trp Glu Leu Gln Val Glu Glu
      85           90           95
Lys Ser Val Leu Glu Val His Gln Gly Glu His Val Lys Gln Leu Leu
      100           105           110
Arg Ile Pro Arg Pro
      115           117

```

```

<210> 1381
<211> 216
<212>Amino acid
<213> Homo sapiens

```

```

      <400> 1381
Lys Val Asn Arg Lys Leu Arg Lys Lys Gly Lys Ile Ser His Asp Lys
      1           5           10           15
Arg Lys Lys Ser Arg Ser Lys Ala Ile Gly Ser Asp Thr Ser Asp Ile
      20           25           30
Val His Ile Trp Cys Pro Glu Gly Met Lys Thr Ser Asp Ile Lys Glu
      35           40           45
Leu Asn Ile Val Leu Pro Glu Phe Glu Lys Thr His Leu Glu His Gln
      50           55           60
Gln Arg Ile Glu Ser Lys Val Cys Lys Ala Ala Ile Ala Thr Phe Tyr
      65           70           75           80
Val Asn Val Lys Glu Gln Phe Ile Lys Met Leu Lys Glu Ser Gln Met
      85           90           95
Leu Thr Asn Leu Lys Arg Lys Asn Ala Lys Met Ile Ser Asp Ile Glu
      100           105           110
Lys Lys Arg Gln Arg Met Ile Glu Val Gln Asp Glu Leu Leu Arg Leu
      115           120           125
Glu Pro Gln Leu Lys Gln Leu Gln Thr Lys Tyr Asp Glu Leu Lys Glu
      130           135           140
Arg Lys Ser Ser Leu Arg Asn Ala Ala Tyr Phe Leu Ser Asn Leu Lys
      145           150           155           160
Gln Leu Tyr Gln Asp Tyr Ser Asp Val Gln Ala Gln Glu Pro Asn Val
      165           170           175
Lys Glu Thr Tyr Asp Ser Ser Ser Leu Pro Ala Leu Leu Phe Lys Ala
      180           185           190
Arg Thr Leu Leu Gly Ala Glu Ser His Leu Arg Asn Ile Asn His Gln
      195           200           205
Leu Glu Lys Leu Leu Asp Gln Gly
      210           215 216

```

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<210> 1382
<211> 137
<212>Amino acid
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

&lt;222&gt; (1)...(137)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1382

```

Val Trp Val Ala Met Glu Glu Pro Pro Val Arg Glu Glu Glu Xaa Glu
 1              5              10              15
Glu Gly Glu Glu Asp Glu Glu Arg Asp Glu Val Gly Pro Glu Gly Ala
      20              25              30
Leu Gly Lys Ser Pro Phe Gln Leu Thr Ala Glu Asp Val Tyr Asp Ile
      35              40              45
Ser Tyr Leu Leu Gly Arg Glu Leu Met Ala Leu Gly Ser Asp Pro Arg
      50              55              60
Val Thr Gln Leu Gln Phe Lys Val Val Arg Val Leu Glu Met Leu Glu
      65              70              75              80
Ala Leu Val Asn Glu Gly Ser Leu Ala Leu Glu Glu Leu Lys Met Glu
      85              90              95
Arg Asp His Leu Arg Lys Glu Val Glu Gly Leu Arg Arg Gln Ser Pro
      100              105              110
Pro Ala Ser Gly Glu Trp Pro Asp Ser Thr Lys Arg Arg Pro Arg Arg
      115              120              125
Lys Lys Arg Lys Arg Cys Cys Gly Tyr
      130              135              137

```

&lt;210&gt; 1383

&lt;211&gt; 90

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1383

```

Pro Arg Asn Asp His Arg Leu Thr Gln Ser Arg Arg Asp Ser Ser Ser
 1              5              10              15
Lys Thr Arg Ala Phe Leu Val Pro Arg Phe Leu Pro Ala His Ala Gly
      20              25              30
Val Thr Ser Glu Glu Arg Thr Ala Met Lys Arg Glu Gly Gly Ala Ala
      35              40              45
His Leu Cys Ser Asp Ser Leu Pro Glu Ser Gln Gln Asp Gly Asn
      50              55              60
His Ala Pro Asn Phe Ser Ser His Gly Ser Cys Arg Arg Arg Gln Arg
      65              70              75              80
Arg Arg His Asp Lys Ala Leu His Ala Arg
      85              90

```

&lt;210&gt; 1384

&lt;211&gt; 166

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1384

```

Thr His Ala Ser Glu Lys Ser Arg Ala Thr Met Ser Ser Trp Ser Arg
 1              5              10              15

```

Gln Arg Pro Lys Ser Pro Gly Gly Ile Gln Pro His Val Ser Arg Thr  
                   20                                  25                                  30  
 Leu Phe Leu Leu Leu Leu Leu Ala Ala Ser Ala Trp Gly Val Thr Leu  
                   35                                  40                                  45  
 Ser Pro Lys Asp Cys Gln Val Phe Arg Ser Asp His Gly Ser Ser Ile  
                   50                                  55                                  60  
 Ser Cys Gln Pro Pro Ala Glu Ile Pro Gly Tyr Leu Pro Ala Asp Thr  
                   65                                  70                                  75                                  80  
 Val His Leu Ala Val Glu Phe Phe Asn Leu Thr His Leu Pro Ala Asn  
                                   85                                  90                                  95  
 Leu Leu Gln Gly Ala Ser Lys Leu Gln Glu Leu His Leu Ser Ser Asn  
                                  100                                 105                                 110  
 Gly Leu Glu Ser Leu Ser Pro Glu Phe Leu Arg Pro Val Pro Gln Leu  
                   115                                 120                                 125  
 Arg Val Leu Asp Leu Thr Arg Asn Ala Leu Thr Gly Leu Pro Pro Gly  
                   130                                 135                                 140  
 Leu Phe Gln Ala Ser Ala Thr Leu Asp Thr Leu Val Leu Lys Glu Asn  
                                  150                                 155                                 160  
 Gln Leu Glu Val Leu Glu  
                                  165 166

<210> 1385  
 <211> 164  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1385  
 Glu Arg Pro Arg Ile Met Asp Leu Ala Gly Leu Leu Lys Ser Gln Phe  
   1                                  5                                  10                                  15  
 Leu Cys His Leu Val Phe Cys Tyr Val Phe Ile Ala Ser Gly Leu Ile  
                   20                                  25                                  30  
 Ile Asn Thr Ile Gln Leu Phe Thr Leu Leu Leu Trp Pro Ile Asn Lys  
                   35                                  40                                  45  
 Gln Leu Phe Arg Lys Ile Asn Cys Arg Leu Ser Tyr Cys Ile Ser Ser  
                   50                                  55                                  60  
 Gln Leu Val Met Leu Leu Glu Trp Trp Ser Gly Thr Glu Cys Thr Ile  
                   65                                  70                                  75                                  80  
 Phe Thr Asp Pro Arg Ala Tyr Leu Lys Tyr Gly Lys Glu Asn Ala Ile  
                                   85                                  90                                  95  
 Val Val Leu Asn His Lys Phe Glu Ile Asp Phe Leu Cys Gly Trp Ser  
                   100                                 105                                 110  
 Leu Ser Glu Arg Phe Gly Leu Leu Gly Val Ser Gln Lys Cys Ile Pro  
                   115                                 120                                 125  
 Pro Cys Leu Thr His Phe Phe Gly Ser Ala Pro Pro Leu Val Phe Leu  
                   130                                 135                                 140  
 Leu Leu Val Ile Gln Asn Leu Gln Lys Asn Gln Gln Ser Phe Tyr Leu  
                                  150                                 155                                 160  
 Met Lys Trp Ser  
                                  164

<210> 1386  
 <211> 289  
 <212>Amino acid  
 <213> Homo sapiens

&lt;400&gt; 1386

```

Met Ile Val Phe Gly Trp Ala Val Phe Leu Ala Ser Arg Ser Leu Gly
 1           5           10           15
Gln Gly Leu Leu Leu Thr Leu Glu Glu His Ile Ala His Phe Leu Gly
          20           25           30
Thr Gly Gly Ala Ala Thr Thr Met Gly Asn Ser Cys Ile Cys Arg Asp
          35           40           45
Asp Ser Gly Thr Asp Asp Ser Val Asp Thr Gln Gln Gln Ala Glu
          50           55           60
Asn Ser Ala Val Pro Thr Ala Asp Thr Arg Ser Gln Pro Arg Asp Pro
          65           70           75           80
Val Arg Pro Pro Arg Arg Gly Arg Gly Pro His Glu Pro Arg Arg Lys
          85           90           95
Lys Gln Asn Val Asp Gly Leu Val Leu Asp Thr Leu Ala Val Ile Arg
          100           105           110
Thr Leu Val Asp Asn Asp Gln Glu Pro Pro Tyr Ser Met Ile Thr Leu
          115           120           125
His Glu Met Ala Glu Thr Asp Glu Gly Trp Leu Asp Val Val Gln Ser
          130           135           140
Leu Ile Arg Val Ile Pro Leu Glu Asp Pro Leu Gly Pro Ala Val Ile
          145           150           155           160
Thr Leu Leu Leu Asp Glu Cys Pro Leu Pro Thr Lys Asp Ala Leu Gln
          165           170           175
Lys Leu Thr Glu Ile Leu Asn Leu Asn Gly Glu Val Ala Cys Gln Asp
          180           185           190
Ser Ser His Pro Ala Lys His Arg Asn Thr Ser Ala Val Leu Gly Cys
          195           200           205
Leu Ala Glu Lys Leu Ala Gly Pro Ala Ser Ile Gly Leu Leu Ser Pro
          210           215           220
Gly Ile Leu Glu Tyr Leu Leu Gln Cys Leu Leu Gln Ser His Pro Thr
          225           230           235           240
Val Met Leu Phe Ala Leu Ile Ala Leu Glu Lys Phe Ala Gln Thr Ser
          245           250           255
Glu Asn Lys Leu Thr Ile Ser Glu Ser Ser Ile Ser Asp Arg Leu Val
          260           265           270
Thr Leu Glu Ser Trp Ala Asn Asp Pro Asp Tyr Leu Lys Arg Gln Val
          275           280           285
Gly
289

```

&lt;210&gt; 1387

&lt;211&gt; 320

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1387

```

Arg Phe Gly Thr Arg Gly Leu Ala Lys Ser Lys Gly Val Val Leu Met
 1           5           10           15
Ala Leu Cys Ala Leu Thr Arg Ala Leu Arg Ser Leu Asn Leu Ala Pro
          20           25           30
Pro Thr Val Ala Ala Pro Ala Pro Ser Leu Phe Pro Ala Ala Gln Met
          35           40           45
Met Asn Asn Gly Leu Leu Gln Gln Pro Ser Ala Leu Met Leu Leu Pro
          50           55           60
Cys Arg Pro Val Leu Thr Ser Val Ala Leu Asn Ala Asn Phe Val Ser
          65           70           75           80
Trp Lys Ser Arg Thr Lys Tyr Thr Ile Thr Pro Val Lys Met Arg Lys
          85           90           95

```



```

Ser Gly Gly Arg Asp His Thr Gly Arg Ile Arg Val His Gly Ile Gly
      100      105      110
Gly Gly His Lys Gln Arg Tyr Arg Met Ile Asp Phe Leu Arg Phe Arg
      115      120      125
Pro Glu Glu Thr Lys Ser Gly Pro Phe Glu Glu Lys Val Ile Gln Val
      130      135      140
Arg Tyr Asp Pro Cys Arg Ser Ala Asp Ile Ala Leu Val Ala Gly Gly
      145      150      155      160
Ser Arg Lys Arg Trp Ile Ile Ala Thr Glu Asn Met Gln Ala Gly Asp
      165      170      175
Thr Ile Leu Asn Ser Asn His Ile Gly Arg Met Ala Val Ala Ala Arg
      180      185      190
Glu Gly Asp Ala His Pro Leu Gly Ala Leu Pro Val Gly Thr Leu Ile
      195      200      205
Asn Asn Val Glu Ser Glu Pro Gly Arg Gly Ala Gln Tyr Ile Arg Ala
      210      215      220
Ala Gly Thr Cys Gly Val Leu Leu Arg Lys Val Asn Gly Thr Ala Ile
      225      230      235      240
Ile Gln Leu Pro Ser Lys Arg Gln Met Gln Val Leu Glu Thr Cys Val
      245      250      255
Ala Thr Val Gly Arg Val Ser Asn Val Asp His Asn Lys Arg Val Ile
      260      265      270
Gly Lys Ala Gly Arg Asn Arg Trp Leu Gly Lys Arg Pro Asn Ser Gly
      275      280      285
Arg Trp His Arg Lys Gly Gly Trp Ala Gly Arg Lys Ile Arg Pro Leu
      290      295      300
Pro Pro Met Lys Ser Tyr Val Lys Leu Pro Ser Ala Ser Ala Gln Ser
      305      310      315      320

```

<210> 1388  
 <211> 140  
 <212> Amino acid  
 <213> Homo sapiens

```

      <400> 1388
Pro Val Gln Gly Ala Arg Cys Trp Leu Asp Ala Arg Arg Asn Val Arg
  1      5      10      15
Val Phe Ser Gly Val Cys Cys Gly Cys Gly Ile His Gly Tyr Trp Ala
      20      25      30
Glu Pro Cys Gly Gly Cys Gly Ala Met Glu Gly Leu Arg Ser Ser Val
      35      40      45
Glu Leu Asp Pro Glu Leu Thr Pro Gly Lys Leu Asp Glu Glu Met Val
      50      55      60
Gly Leu Pro Pro His Asp Ala Ser Pro Gln Val Thr Phe His Ser Leu
      65      70      75      80
Asp Gly Lys Thr Val Val Cys Pro His Phe Met Gly Leu Leu Leu Gly
      85      90      95
Leu Leu Leu Leu Leu Thr Leu Ser Val Arg Asn Gln Leu Cys Val Arg
      100      105      110
Gly Glu Arg Gln Leu Ala Glu Thr Leu His Ser Gln Val Lys Glu Lys
      115      120      125
Ser Gln Leu Ile Gly Lys Lys Thr Asp Cys Arg Asp
      130      135      140

```

<210> 1389  
 <211> 448

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1389

Gly Ala Arg Gly Arg Pro Leu Ala Glu Thr Trp Pro Phe Leu Thr Ala  
 1 5 10 15  
 Pro Val Leu Pro Gly Gln Leu Gln Ile Thr Glu Pro Thr Met Ala Glu  
 20 25 30  
 Lys Gly Asp Cys Ile Ala Ser Val Tyr Gly Tyr Asp Leu Gly Gly Arg  
 35 40 45  
 Phe Val Asp Phe Gln Pro Leu Gly Phe Gly Val Asn Gly Leu Val Leu  
 50 55 60  
 Ser Ala Val Asp Ser Arg Ala Cys Arg Lys Val Ala Val Lys Lys Ile  
 65 70 75 80  
 Ala Leu Ser Asp Ala Arg Ser Met Lys His Ala Leu Arg Glu Ile Lys  
 85 90 95  
 Ile Ile Arg Arg Leu Asp His Asp Asn Ile Val Lys Val Tyr Glu Val  
 100 105 110  
 Leu Gly Pro Lys Gly Thr Asp Leu Gln Gly Glu Leu Phe Lys Phe Ser  
 115 120 125  
 Val Ala Tyr Ile Val Gln Glu Tyr Met Glu Thr Asp Leu Ala Arg Leu  
 130 135 140  
 Leu Glu Gln Gly Thr Leu Ala Glu Glu His Ala Lys Leu Phe Met Tyr  
 145 150 155 160  
 Gln Leu Leu Arg Gly Leu Lys Tyr Ile His Ser Ala Asn Val Leu His  
 165 170 175  
 Arg Asp Leu Lys Pro Ala Asn Ile Phe Ile Ser Thr Glu Asp Leu Val  
 180 185 190  
 Leu Lys Ile Gly Asp Phe Gly Leu Ala Arg Ile Val Asp Gln His Tyr  
 195 200 205  
 Ser His Lys Gly Tyr Leu Ser Glu Gly Leu Val Thr Lys Trp Tyr Arg  
 210 215 220  
 Ser Pro Arg Leu Leu Leu Ser Pro Asn Asn Tyr Thr Lys Ala Ile Asp  
 225 230 235 240  
 Met Trp Ala Ala Gly Cys Ile Leu Ala Glu Met Leu Thr Gly Arg Met  
 245 250 255  
 Leu Phe Ala Gly Ala His Glu Leu Glu Gln Met Gln Leu Ile Leu Glu  
 260 265 270  
 Thr Ile Pro Val Ile Arg Glu Glu Asp Lys Asp Glu Leu Leu Arg Val  
 275 280 285  
 Met Pro Ser Phe Val Ser Ser Thr Trp Glu Val Lys Arg Pro Leu Arg  
 290 295 300  
 Lys Leu Leu Pro Glu Val Asn Ser Glu Ala Ile Asp Phe Leu Glu Lys  
 305 310 315 320  
 Ile Leu Thr Phe Asn Pro Met Asp Arg Leu Thr Ala Glu Met Gly Leu  
 325 330 335  
 Gln His Pro Tyr Met Ser Pro Tyr Ser Cys Pro Glu Asp Glu Pro Thr  
 340 345 350  
 Ser Gln His Pro Phe Arg Ile Glu Asp Glu Ile Asp Asp Ile Val Leu  
 355 360 365  
 Met Ala Ala Asn Gln Ser Gln Leu Ser Asn Trp Asp Thr Cys Ser Ser  
 370 375 380  
 Arg Tyr Pro Val Ser Leu Ser Ser Asp Leu Glu Trp Arg Pro Asp Arg  
 385 390 395 400  
 Cys Gln Asp Ala Ser Glu Val Gln Arg Asp Pro Arg Ala Gly Ser Ala  
 405 410 415  
 Pro Leu Ala Glu Asn Val Gln Val Asp Pro Arg Lys Asp Ser His Ser  
 420 425 430  
 Ser Ser Ala Ser Cys Gln Ala Gly Arg Asn Gly Val Ser Arg Tyr Gln  
 435 440 445 448

<210> 1390  
 <211> 815  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1390  
 Met Arg Thr Leu Gly Thr Cys Leu Ala Thr Leu Ala Gly Leu Leu Leu  
 1 5 10 15  
 Thr Ala Ala Gly Thr Phe Ser Gly Gly Cys Leu Phe Asp Glu Pro  
 20 25 30  
 Tyr Ser Thr Cys Gly Tyr Ser Gln Ser Glu Gly Asp Asp Phe Asn Trp  
 35 40 45  
 Glu Gln Val Asn Thr Leu Thr Lys Pro Thr Ser Asp Pro Trp Met Pro  
 50 55 60  
 Ser Gly Ser Phe Met Leu Val Asn Ala Ser Gly Arg Pro Glu Gly Gln  
 65 70 75 80  
 Arg Ala His Leu Leu Leu Pro Gln Leu Lys Glu Asn Asp Thr His Cys  
 85 90 95  
 Ile Asp Phe His Tyr Phe Val Ser Ser Lys Ser Asn Ser Pro Pro Gly  
 100 105 110  
 Leu Leu Asn Val Tyr Val Lys Val Asn Asn Gly Pro Leu Gly Asn Pro  
 115 120 125  
 Ile Trp Asn Ile Ser Gly Asp Pro Thr Arg Thr Trp Asn Arg Ala Glu  
 130 135 140  
 Leu Ala Ile Ser Thr Phe Trp Pro Asn Phe Tyr Gln Val Ile Phe Glu  
 145 150 155 160  
 Val Ile Thr Ser Gly His Gln Gly Tyr Leu Ala Ile Asp Glu Val Lys  
 165 170 175  
 Val Leu Gly His Pro Cys Thr Arg Thr Pro His Phe Leu Arg Ile Gln  
 180 185 190  
 Asn Val Glu Val Asn Ala Gly Gln Phe Ala Thr Phe Gln Cys Ser Ala  
 195 200 205  
 Ile Gly Arg Thr Val Ala Gly Asp Arg Leu Trp Leu Gln Gly Ile Asp  
 210 215 220  
 Val Arg Asp Ala Pro Leu Lys Glu Ile Lys Val Thr Ser Ser Arg Arg  
 225 230 235 240  
 Phe Ile Ala Ser Phe Asn Val Val Asn Thr Thr Lys Arg Asp Ala Gly  
 245 250 255  
 Lys Tyr Arg Cys Met Ile Arg Thr Glu Gly Gly Val Gly Ile Ser Asn  
 260 265 270  
 Tyr Ala Glu Leu Val Val Lys Glu Pro Pro Val Pro Ile Ala Pro Pro  
 275 280 285  
 Gln Leu Ala Ser Val Gly Ala Thr Tyr Leu Trp Ile Gln Leu Asn Ala  
 290 295 300  
 Asn Ser Ile Asn Gly Asp Gly Pro Ile Val Ala Arg Glu Val Glu Tyr  
 305 310 315 320  
 Cys Thr Ala Ser Gly Ser Trp Asn Asp Arg Gln Pro Val Asp Ser Thr  
 325 330 335  
 Ser Tyr Lys Ile Gly His Leu Asp Pro Asp Thr Glu Tyr Glu Ile Ser  
 340 345 350  
 Val Leu Leu Thr Arg Pro Gly Glu Gly Gly Thr Gly Ser Pro Gly Pro  
 355 360 365  
 Ala Leu Arg Thr Arg Thr Lys Cys Ala Asp Pro Met Arg Gly Pro Arg  
 370 375 380  
 Lys Leu Glu Val Val Glu Val Lys Ser Arg Gln Ile Thr Ile Arg Trp  
 385 390 395 400

Glu Pro Phe Gly Tyr Asn Val Thr Arg Cys His Ser Tyr Asn Leu Thr  
 405 410 415  
 Val His Tyr Cys Tyr Gln Val Gly Gly Gln Glu Gln Val Arg Glu Glu  
 420 425 430  
 Val Ser Trp Asp Thr Glu Asn Ser His Pro Gln His Thr Ile Thr Asn  
 435 440 445  
 Leu Ser Pro Tyr Thr Asn Val Ser Val Lys Leu Ile Leu Met Asn Pro  
 450 455 460  
 Glu Gly Arg Lys Glu Ser Gln Glu Leu Ile Val Gln Thr Asp Glu Asp  
 465 470 475 480  
 Leu Pro Gly Ala Val Pro Thr Glu Ser Ile Gln Gly Ser Thr Phe Glu  
 485 490 495  
 Glu Lys Ile Phe Leu Gln Trp Arg Glu Pro Thr Gln Thr Tyr Gly Val  
 500 505 510  
 Ile Thr Leu Tyr Glu Ile Thr Tyr Lys Ala Val Ser Ser Phe Asp Pro  
 515 520 525  
 Glu Ile Asp Leu Ser Asn Gln Ser Gly Arg Val Ser Lys Leu Gly Asn  
 530 535 540  
 Glu Thr His Phe Leu Phe Phe Gly Leu Tyr Pro Gly Thr Thr Tyr Ser  
 545 550 555 560  
 Phe Thr Ile Arg Ala Ser Thr Ala Lys Gly Phe Gly Pro Pro Ala Thr  
 565 570 575  
 Asn Gln Phe Thr Thr Lys Ile Ser Ala Pro Ser Met Pro Ala Tyr Glu  
 580 585 590  
 Leu Glu Thr Pro Leu Asn Gln Thr Asp Asn Thr Val Thr Val Met Leu  
 595 600 605  
 Lys Pro Ala His Ser Arg Gly Ala Pro Val Ser Val Tyr Gln Ile Val  
 610 615 620  
 Val Glu Glu Glu Arg Pro Arg Arg Thr Lys Lys Thr Thr Glu Ile Leu  
 625 630 635 640  
 Lys Cys Tyr Pro Val Pro Ile His Phe Gln Asn Ala Ser Leu Leu Asn  
 645 650 655  
 Ser Gln Tyr Tyr Phe Ala Ala Glu Phe Pro Ala Asp Ser Leu Gln Ala  
 660 665 670  
 Ala Gln Pro Phe Thr Ile Gly Asp Asn Lys Thr Tyr Asn Gly Tyr Trp  
 675 680 685  
 Asn Thr Pro Leu Leu Pro Tyr Lys Ser Tyr Arg Ile Tyr Phe Gln Ala  
 690 695 700  
 Ala Ser Arg Ala Asn Gly Glu Thr Lys Ile Asp Cys Val Gln Val Ala  
 705 710 715 720  
 Thr Lys Gly Ala Ala Thr Pro Lys Pro Val Pro Glu Pro Glu Lys Gln  
 725 730 735  
 Thr Asp His Thr Val Lys Ile Ala Gly Val Ile Ala Gly Ile Leu Leu  
 740 745 750  
 Phe Val Ile Ile Phe Leu Gly Val Val Leu Val Met Lys Lys Arg Leu  
 755 760 765  
 Tyr Lys His Gly Ala Ser Ile Cys Ser Ala Ser Gly Glu Ala Ser Gly  
 770 775 780  
 Ser Phe Gln Ser Trp Arg Lys Ala Lys His Lys Gln Ala Cys Pro Met  
 785 790 795 800  
 Ala Arg Ala Gly Ala Arg Glu Arg Ala Gly Gly Cys Leu Lys Leu  
 805 810 815

&lt;210&gt; 1391

&lt;211&gt; 142

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1391

Gly Ile Arg Gln Leu Leu Gln Leu Ser Arg Ala Ser Met Ala Ala Arg  
 1 5 10 15  
 Lys Ser Trp Thr Ala Leu Arg Leu Cys Ala Thr Val Val Val Leu Asp  
 20 25 30  
 Met Val Val Cys Lys Gly Phe Val Gln Asp Leu Asp Glu Ser Phe Lys  
 35 40 45  
 Glu Asn Arg Asn Asp Asp Ile Trp Leu Val His Phe Tyr Ala Pro Trp  
 50 55 60  
 Cys Gly His Cys Lys Lys Leu Glu Pro Ile Trp Asn Glu Ala Gly Leu  
 65 70 75 80  
 Glu Met Lys Ser Ile Gly Ser Pro Val Lys Ala Gly Lys Met Asp Ala  
 85 90 95  
 Thr Ser Tyr Ser Ser Ile Ala Ser Glu Phe Gly Val Arg Gly Tyr Pro  
 100 105 110  
 Thr Ile Lys Leu Ala Leu Ile Arg Pro Leu Pro Ser Gln Gln Met Phe  
 115 120 125  
 Glu His Met His Lys Arg His Arg Val Phe Phe Val Tyr Val  
 130 135 140 142

<210> 1392  
 <211> 282  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1392  
 Gly Leu Val Ile Val Ile Ser His Phe Ser Pro Ser Pro Gly Leu Leu  
 1 5 10 15  
 Pro Ala Thr Gln Ser Pro Ala Met Ser Asp Pro Ile Thr Leu Asn Val  
 20 25 30  
 Gly Gly Lys Leu Tyr Thr Thr Ser Leu Ala Thr Leu Thr Ser Phe Pro  
 35 40 45  
 Asp Ser Met Leu Gly Ala Met Phe Ser Gly Lys Met Pro Thr Lys Arg  
 50 55 60  
 Asp Ser Gln Gly Asn Cys Phe Ile Asp Arg Asp Gly Lys Val Phe Arg  
 65 70 75 80  
 Tyr Ile Leu Asn Phe Leu Arg Thr Ser His Leu Asp Leu Pro Glu Asp  
 85 90 95  
 Phe Gln Glu Met Gly Leu Leu Arg Arg Glu Ala Asp Phe Tyr Gln Val  
 100 105 110  
 Gln Pro Leu Ile Glu Ala Leu Gln Glu Lys Glu Val Glu Leu Ser Lys  
 115 120 125  
 Ala Glu Lys Asn Ala Met Leu Asn Ile Thr Leu Asn Gln Arg Val Gln  
 130 135 140  
 Thr Val His Phe Thr Val Arg Glu Ala Pro Gln Ile Tyr Ser Leu Ser  
 145 150 155 160  
 Ser Ser Ser Met Glu Val Phe Asn Ala Asn Ile Phe Ser Thr Ser Cys  
 165 170 175  
 Leu Phe Leu Lys Leu Leu Gly Ser Lys Leu Phe Tyr Cys Ser Asn Gly  
 180 185 190  
 Asn Leu Ser Ser Ile Thr Ser His Leu Gln Asp Pro Asn His Leu Thr  
 195 200 205  
 Leu Asp Trp Val Ala Asn Val Glu Gly Leu Pro Glu Glu Glu Tyr Thr  
 210 215 220  
 Lys Gln Asn Leu Lys Arg Leu Trp Val Val Pro Ala Asn Lys Gln Ile  
 225 230 235 240  
 Asn Ser Phe Gln Val Phe Val Glu Glu Val Leu Lys Ile Ala Leu Ser  
 245 250 255  
 Asp Gly Phe Cys Ile Asp Ser Ser His Pro His Ala Leu Asp Phe Met  
 260 265 270

<210> 1393  
 <211> 308  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1393  
 Ser Cys Ala Asp Asn Leu Val Ala Ala Ser Gly Gly Cys Trp Phe Val  
 1 5 10 15  
 Leu Gly Glu Arg Arg Ala Gly Ser Leu Leu Ser Ala Ser Tyr Gly Thr  
 20 25 30  
 Phe Ala Met Pro Gly Met Val Leu Phe Gly Arg Arg Trp Ala Ile Ala  
 35 40 45  
 Ser Asp Asp Leu Val Phe Pro Gly Phe Phe Glu Leu Val Val Arg Val  
 50 55 60  
 Leu Trp Trp Ile Gly Ile Leu Thr Leu Tyr Leu Met His Arg Gly Lys  
 65 70 75 80  
 Leu Asp Cys Ala Gly Gly Ala Leu Leu Ser Ser Tyr Leu Ile Val Leu  
 85 90 95  
 Met Ile Leu Leu Ala Val Val Ile Cys Thr Val Ser Ala Ile Met Cys  
 100 105 110  
 Val Ser Met Arg Gly Thr Ile Cys Asn Pro Gly Pro Arg Lys Ser Met  
 115 120 125  
 Ser Lys Leu Leu Tyr Ile Arg Leu Ala Leu Phe Phe Pro Glu Met Val  
 130 135 140  
 Trp Ala Ser Leu Gly Ala Ala Trp Val Ala Asp Gly Val Gln Cys Asp  
 145 150 155 160  
 Arg Thr Val Val Asn Gly Ile Ile Ala Thr Val Val Val Ser Trp Ile  
 165 170 175  
 Ile Ile Ala Ala Thr Val Val Ser Ile Ile Ile Val Phe Asp Pro Leu  
 180 185 190  
 Gly Gly Lys Met Ala Pro Tyr Ser Ser Ala Gly Pro Ser His Leu Asp  
 195 200 205  
 Ser His Asp Ser Ser Gln Leu Leu Asn Gly Leu Lys Thr Ala Ala Thr  
 210 215 220  
 Ser Val Trp Glu Thr Arg Ile Lys Leu Leu Cys Cys Cys Ile Gly Lys  
 225 230 235 240  
 Asp Asp His Thr Arg Val Ala Phe Ser Ser Thr Ala Glu Leu Phe Ser  
 245 250 255  
 Thr Tyr Phe Ser Asp Thr Asp Leu Val Pro Ser Asp Ile Ala Ala Gly  
 260 265 270  
 Leu Ala Leu Leu His Gln Gln Gln Asp Asn Ile Arg Asn Asn Gln Asp  
 275 280 285  
 Leu Pro Arg Trp Ser Ala Met Pro Gln Gly Ala Pro Arg Lys Leu Ile  
 290 295 300  
 Trp Met Gln Asn  
 305 308

<210> 1394  
 <211> 238  
 <212>Amino acid  
 <213> Homo sapiens

&lt;400&gt; 1394

```

Phe Arg Ala Ala Thr Ala Ala Ala Lys Gly Asn Gly Gly Gly Gly Gly
 1          5          10          15
Arg Ala Gly Ala Gly Asp Ala Ser Gly Thr Arg Lys Lys Lys Gly Pro
          20          25          30
Gly Pro Leu Ala Thr Ala Tyr Leu Val Ile Tyr Asn Val Val Met Thr
          35          40          45
Ala Gly Trp Leu Val Ile Ala Val Gly Leu Val Arg Ala Tyr Leu Ala
          50          55          60
Lys Gly Ser Tyr His Ser Leu Tyr Tyr Ser Ile Glu Lys Pro Leu Lys
          65          70          75          80
Phe Phe Gln Thr Gly Ala Leu Leu Glu Ile Leu His Cys Ala Ile Gly
          85          90          95
Ile Val Pro Ser Ser Val Val Leu Thr Ser Phe Gln Val Met Ser Arg
          100          105          110
Val Phe Leu Ile Trp Ala Val Thr His Ser Val Lys Glu Val Gln Ser
          115          120          125
Glu Asp Ser Val Leu Phe Val Ile Ala Trp Thr Ile Thr Glu Ile Ile
          130          135          140
Arg Tyr Ser Phe Tyr Thr Phe Ser Leu Leu Asn His Leu Pro Tyr Leu
          145          150          155          160
Ile Lys Arg Ala Arg Tyr Thr Leu Phe Ile Val Leu Tyr Pro Met Gly
          165          170          175
Val Ser Gly Glu Leu Leu Thr Ile Tyr Ala Ala Leu Pro Phe Val Arg
          180          185          190
Gln Ala Gly Leu Tyr Ser Ile Ser Leu Pro Asn Ser Thr Lys Lys Ile
          195          200          205
Phe Leu Ile Ser Gln Val Trp Trp His Met Leu Ala Val Ser Ala Asp
          210          215          220
Ala Lys Ala Ala Glu Met Pro Ala Val Leu Lys Pro Gly Pro
          225          230          235          238

```

&lt;210&gt; 1395

&lt;211&gt; 231

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1395

```

Met Leu Thr Gly Val Gly Cys Leu Val Ser Ser Glu Ser Leu Ser Cys
 1          5          10          15
Val Gln Cys Asn Ser Trp Glu Lys Ser Cys Val Asn Ser Ile Ala Ser
          20          25          30
Glu Cys Pro Ser His Ala Asn Thr Ser Cys Ile Ser Ser Ser Ala Ser
          35          40          45
Ser Ser Leu Glu Thr Pro Val Arg Leu Tyr Gln Asn Met Phe Cys Ser
          50          55          60
Ala Glu Asn Cys Ser Glu Glu Thr His Ile Thr Ala Phe Thr Val His
          65          70          75          80
Val Ser Ala Glu Glu His Phe His Phe Val Ser Gln Cys Cys Glu Gly
          85          90          95
Lys Glu Cys Ser Asn Thr Ser Asp Ala Leu Asp Pro Pro Leu Lys Asn
          100          105          110
Val Ser Ser Asn Ala Glu Cys Pro Ala Cys Tyr Glu Ser Asn Gly Thr
          115          120          125
Ser Cys Arg Gly Lys Pro Trp Lys Cys Tyr Glu Glu Glu Gln Cys Val
          130          135          140
Phe Leu Val Ala Glu Leu Lys Asn Asp Ile Glu Ser Lys Ser Leu Val
          145          150          155          160

```

Leu Lys Gly Cys Ser Asn Val Ser Asn Ala Thr Cys Gln Phe Leu Ser  
                                   165                                  170                                  175  
 Gly Glu Asn Lys Thr Leu Gly Gly Val Ile Phe Arg Lys Phe Glu Cys  
                                   180                                  185                                  190  
 Ala Asn Val Asn Ser Leu Thr Pro Thr Ser Ala Pro Thr Thr Ser His  
                                   195                                  200                                  205  
 Asn Val Gly Ser Lys Ala Ser Leu Tyr Leu Leu Ala Leu Ala Ser Leu  
                                   210                                  215                                  220  
 Leu Leu Arg Gly Leu Leu Pro  
                                   225                                  230 231

<210> 1396  
 <211> 216  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1396  
 Val Pro Ala Arg Arg Arg Ala Met Glu Ile Gly Thr Glu Ile Ser Arg  
   1                                  5                                  10                                  15  
 Lys Ile Arg Ser Ala Ile Lys Gly Lys Leu Gln Glu Leu Gly Ala Tyr  
                                   20                                  25                                  30  
 Val Asp Glu Glu Leu Pro Asp Tyr Ile Met Val Met Val Ala Asn Lys  
                                   35                                  40                                  45  
 Lys Ser Gln Asp Gln Met Thr Glu Asp Leu Ser Leu Phe Leu Gly Asn  
                                   50                                  55                                  60  
 Asn Thr Ile Arg Phe Thr Val Trp Leu His Gly Val Leu Asp Lys Leu  
                                   65                                  70                                  75                                  80  
 Arg Ser Val Thr Thr Glu Pro Ser Ser Leu Lys Ser Ser Asp Thr Asn  
                                   85                                  90                                  95  
 Ile Phe Asp Ser Asn Val Pro Ser Asn Lys Ser Asn Phe Ser Arg Gly  
                                   100                                  105                                  110  
 Asp Glu Arg Arg His Glu Ala Ala Val Pro Pro Leu Ala Ile Pro Ser  
                                   115                                  120                                  125  
 Ala Arg Pro Glu Lys Arg Asp Ser Arg Val Ser Thr Ser Ser Gln Glu  
                                   130                                  135                                  140  
 Ser Lys Thr Thr Asn Val Arg Gln Thr Tyr Asp Asp Gly Ala Ala Thr  
                                   145                                  150                                  155                                  160  
 Arg Leu Met Ser Thr Val Lys Pro Leu Arg Glu Pro Ala Pro Ser Glu  
                                   165                                  170                                  175  
 Asp Val Ile Asp Ile Lys Pro Glu Pro Asp Asp Leu Ile Asp Glu Asp  
                                   180                                  185                                  190  
 Leu Asn Phe Val Gln Glu Lys Pro Leu Ser Gln Lys Lys Pro Thr Val  
                                   195                                  200                                  205  
 Thr Leu Thr Tyr Gly Ser Ser Arg  
                                   210                                  215 216

<210> 1397  
 <211> 135  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1397  
 Ala Ser Arg Val Leu Ala Ala Val Met Gly Leu Pro Trp Gly Gln Pro  
   1                                  5                                  10                                  15



```

His Leu Gly Leu Gln Met Leu Leu Leu Ala Leu Asn Trp Leu Arg Pro
      20              25              30
Ser Leu Ser Leu Glu Leu Val Pro Tyr Thr Pro Gln Ile Thr Ala Trp
      35              40              45
Asp Leu Glu Gly Lys Val Thr Ala Thr Thr Phe Ser Leu Glu Gln Pro
      50              55              60
Arg Cys Val Phe Asp Gly Leu Ala Ser Ala Ser Asp Thr Val Trp Leu
      65              70              75              80
Val Val Ala Phe Ser Asn Ala Ser Arg Gly Phe Gln Asn Pro Glu Thr
      85              90              95
Leu Ala Asp Ile Pro Ala Ser Pro Gln Leu Leu Thr Asp Gly His Tyr
      100             105             110
Met Thr Leu Pro Leu Ser Pro Asp Gln Leu Pro Cys Gly Asp Pro Met
      115             120             125
Ala Gly Ser Gly Ser Ala Pro
      130             135

```

```

<210> 1398
<211> 41
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1398
Asn Ser Leu Asn Asn Phe Phe Phe Glu Thr Glu Ser Cys Cys Val Ala
  1              5              10              15
Gln Ala Gly Val Gln Trp Arg Asp Leu Gly Ser Leu Gln Ala Pro Pro
      20              25              30
Pro Gly Phe Lys Arg Phe Ser Cys Leu
      35              40  41

```

```

<210> 1399
<211> 151
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1399
Lys Ser Leu Pro Leu Gln Lys His Pro Lys Pro Ser Cys Gln Glu Asp
  1              5              10              15
Gln Gly Leu Gly Arg Gly Ser Leu Ser Gly His Ser Pro Leu Thr Leu
      20              25              30
Leu Thr Phe Leu Thr Ser Cys Ala Leu Gly Asp Gln Gln Leu Leu Pro
      35              40              45
Pro Arg Thr Ser Gly Ser Leu Cys Gln Glu Ser Met Ser Glu Gln Ser
      50              55              60
Cys Gln Met Ser Glu Leu Arg Leu Leu Leu Leu Gly Lys Cys Arg Ser
      65              70              75              80
Gly Lys Ser Ala Thr Gly Asn Ala Ile Leu Gly Lys His Val Phe Lys
      85              90              95
Ser Lys Phe Ser Asp Gln Thr Val Ile Lys Met Cys Gln Arg Glu Ser
      100             105             110
Trp Val Leu Arg Glu Arg Lys Val Val Val Ile Asp Thr Pro Asp Leu
      115             120             125
Phe Ser Ser Ile Ala Cys Ala Glu Asp Lys Gln Arg Asn Ile Gln His
      130             135             140

```

Leu Leu Glu Leu Ser Ala Pro  
 145 150 151

<210> 1400  
 <211> 324  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1400  
 Phe Val Glu Thr Thr Val Ser Val Gln Ser Ala Glu Ser Ser Asp Ala  
 1 5 10 15  
 Leu Ser Trp Ser Arg Leu Pro Arg Ala Leu Ala Ser Val Gly Pro Glu  
 20 25 30  
 Glu Ala Arg Ser Gly Ala Pro Val Gly Gly Gly Arg Trp Gln Leu Ser  
 35 40 45  
 Asp Arg Val Glu Gly Gly Ser Pro Thr Leu Gly Leu Leu Gly Gly Ser  
 50 55 60  
 Pro Ser Ala Gln Pro Gly Thr Gly Asn Val Glu Ala Gly Ile Pro Ser  
 65 70 75 80  
 Gly Arg Met Leu Glu Pro Leu Pro Cys Trp Asp Ala Ala Lys Asp Leu  
 85 90 95  
 Lys Glu Pro Gln Cys Pro Pro Gly Asp Arg Val Gly Val Gln Pro Gly  
 100 105 110  
 Asn Ser Arg Val Trp Gln Gly Thr Met Glu Lys Ala Gly Leu Ala Trp  
 115 120 125  
 Thr Arg Gly Thr Gly Val Gln Ser Glu Gly Thr Trp Glu Ser Gln Arg  
 130 135 140  
 Gln Asp Ser Asp Ala Leu Pro Ser Pro Glu Leu Leu Pro Gln Asp Gln  
 145 150 155 160  
 Asp Lys Pro Phe Leu Arg Lys Ala Cys Ser Pro Ser Asn Ile Pro Ala  
 165 170 175  
 Val Ile Ile Thr Asp Met Gly Thr Gln Glu Asp Gly Ala Leu Glu Glu  
 180 185 190  
 Thr Gln Gly Ser Pro Arg Gly Asn Leu Pro Leu Arg Lys Leu Ser Ser  
 195 200 205  
 Ser Ser Ala Ser Ser Thr Gly Phe Ser Ser Ser Tyr Glu Asp Ser Glu  
 210 215 220  
 Glu Asp Ile Ser Ser Asp Pro Glu Arg Thr Leu Asp Pro Asn Ser Ala  
 225 230 235 240  
 Phe Leu His Thr Leu Asp Gln Gln Lys Pro Arg Val Val Glu Ser Arg  
 245 250 255  
 Ser Val Thr Gln Ala Gly Val Gln Trp His Asp Ile Gly Ser Leu Gln  
 260 265 270  
 Pro Leu Pro Pro Trp Ile Gln Ala Ile Leu His Ala Ser Ala Phe Arg  
 275 280 285  
 Ile Ala Gly Thr Thr Gly Ala Cys His His Ala Arg Ile Ile Phe Gly  
 290 295 300  
 Phe Leu Val Glu Arg Gly Phe His His Val Gly Gln Asp Gly Leu Tyr  
 305 310 315 320  
 Leu Leu Ile Leu  
 324

<210> 1401  
 <211> 76  
 <212>Amino acid  
 <213> Homo sapiens

<220>

<221> misc\_feature  
 <222> (1)...(76)  
 <223> X = any amino acid or stop code

<400> 1401  
 Lys Ile Cys Ser Ser Tyr Phe Leu Arg Ile Ile Cys Ile Leu Gln Lys  
 1 5 10 15  
 Glu Ala Gln Glu Ala Ser Asn Leu Tyr Thr Ser Cys Asp Phe Phe Ser  
 20 25 30  
 Pro Ala Phe Tyr Phe Val Ile Tyr Arg Leu Tyr Asn Phe Lys Ile His  
 35 40 45  
 Trp Pro Gly Ala Val Ala His Thr Tyr Ser Pro Ser Thr Leu Gly Gly  
 50 55 60  
 Arg Gly Arg Trp Val Thr Xaa Gly Arg Glu Phe Met  
 65 70 75 76

<210> 1402  
 <211> 102  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1402  
 Leu Ile Leu Ser Leu Pro Leu Leu Tyr Gly His Leu Lys Ser Tyr Thr  
 1 5 10 15  
 Phe Pro Ser Glu His Tyr Leu His Leu Leu Gln Thr Phe Ala Thr Phe  
 20 25 30  
 Asn Lys Tyr Leu Asn Val Cys Val Leu Ile Phe Ile His His Lys Pro  
 35 40 45  
 Val Val Pro Ala Ile Gln Gly Thr Asn Val Gly Gly Ser Leu Glu Pro  
 50 55 60  
 Arg Arg Leu Arg Leu Gln Gln Ala Met Ile Val Pro Leu His Phe Gly  
 65 70 75 80  
 Leu Gly Asn Arg Val Arg Pro Cys Leu Lys Lys Gln Gln Gln Gln Gln  
 85 90 95  
 Gln Gln Gln Gln Lys Lys  
 100 102

<210> 1403  
 <211> 124  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(124)  
 <223> X = any amino acid or stop code

<400> 1403  
 Arg Met Glu Thr Lys Pro Val Ile Thr Cys Leu Lys Thr Leu Leu Ile  
 1 5 10 15

```

Ile Tyr Ser Phe Val Phe Trp Ile Thr Gly Val Ile Leu Leu Ala Ala
      20      25      30
Gly Val Trp Gly Lys Leu Thr Leu Gly Ser Tyr Ile Ser Leu Ile Ala
      35      40      45
Glu Asn Ser Thr Tyr Ala Pro Tyr Val Leu Ile Val Thr Gly Thr Thr
      50      55      60
Ile Val Ala Tyr Pro Leu Val Xaa Phe Phe Phe Ser Tyr Ser Ser Gly
      65      70      75      80
Phe Ser Tyr Ile Leu Ala Val Arg Leu Ile Ala Gly Ile Ala Leu Val
      85      90      95
Tyr Asn Tyr Ile Pro Arg Ser Ser Ser Arg Ala Leu Val Arg Leu Val
      100      105      110
Val Leu Leu Arg Phe Leu Leu Ser Arg His Pro Ser
      115      120      124

```

&lt;210&gt; 1404

&lt;211&gt; 136

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(136)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1404

```

Asn Ala Glu His Pro Gly Met Asp Arg His Asp Leu Cys Gln Lys Ala
  1      5      10      15
Lys Leu Ala Glu His Ala Glu Arg Asp Asp Met Ala Ala Cys Met
      20      25      30
Lys Thr Val Thr Asp Gln Gly Ala Glu Leu Ser Asn Glu Glu Arg Asn
      35      40      45
Leu Leu Ser Asp Ala His Thr Asn Ala Val Xaa Ala Arg Arg Ser Ser
      50      55      60
Trp Met Gly Ala Xaa Arg Ile Glu Gln Lys Thr Glu Gly Ala Asp Thr
      65      70      75      80
Gln Gln Gln Met Ala Pro Asp Cys Arg Glu Ile Phe Ala Thr Glu Leu
      85      90      95
Arg Asp Ile Cys Asp Asp Val Leu Ser Leu Leu Glu Lys Leu Leu Ile
      100      105      110
Pro Asn Ala Ser His Ala Xaa Ser Leu Val Tyr Tyr Leu His Met Ile
      115      120      125
Gly Asp Tyr Tyr Arg Tyr Trp Leu
      130      135 136

```

&lt;210&gt; 1405

&lt;211&gt; 110

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(110)

&lt;223&gt; X = any amino acid or stop code

MISSING AT THE TIME OF PUBLICATION

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<210> 1408
<211> 92
<212> Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(92)
<223> X = any amino acid or stop code
```

```
<210> 1409
<211> 169
<212>Amino acid
```

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(169)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1409

```

Ala Glu Gly Leu Gly Ser Trp Ala Val Trp Ala Gly Leu Gly Trp Ala
 1          5          10          15
Gly Arg His Met Glu Ala Gly Gly Ala Thr Gly Ala Leu Gly Val Gly
          20          25          30
Ser Lys Leu Pro Ser Ala Phe Cys Phe Pro Gly Ser Ser Val Ala Met
          35          40          45
Asp Met Phe Gln Lys Val Glu Lys Ile Gly Glu Gly Thr Tyr Gly Val
          50          55          60
Val Tyr Lys Ala Lys Asn Arg Glu Thr Gly Gln Leu Val Ala Leu Lys
          65          70          75          80
Lys Ile Arg Leu Asp Leu Xaa Val Leu Gly Arg Pro Leu Ser Tyr Pro
          85          90          95
Pro Trp Ala Ile Thr Thr Trp Ala Leu Pro Asp Pro Phe Pro Leu Ser
          100          105          110
Trp Ser Pro Arg Leu Thr Pro Leu Gly Ala Ala Gln Gln Pro Leu Pro
          115          120          125
Val Leu Ser Pro Val His Cys Leu Leu Thr Ser Leu Cys Arg Gly Pro
          130          135          140
Asp Cys Gly Val Trp Trp Met Thr Cys Gln Gly Ala Gln Val Ser Ile
          145          150          155          160
Ala Gly Ala Leu Val Ile Leu Trp Gly
          165          169

```

&lt;210&gt; 1410

&lt;211&gt; 146

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1410

```

Leu Cys Val Ser Val Leu Cys Ser Phe Ser Tyr Leu Gln Asn Gly Trp
 1          5          10          15
Thr Ala Ser Asp Pro Val His Gly Tyr Trp Phe Arg Ala Gly Asp His
          20          25          30
Val Ser Arg Asn Ile Pro Val Ala Thr Asn Asn Pro Val Arg Ala Val
          35          40          45
Gln Glu Glu Thr Arg Asp Arg Phe His Leu Leu Gly Asp Pro Gln Asn
          50          55          60
Lys Asp Cys Thr Leu Ser Ile Arg Asp Thr Arg Glu Ser Asp Ala Gly
          65          70          75          80
Thr Tyr Val Phe Cys Val Glu Arg Gly Asn Met Lys Trp Asn Tyr Lys
          85          90          95
Tyr Asp Gln Leu Ser Val Asn Val Thr Ala Ser Gln Asp Leu Leu Ser
          100          105          110
Arg Tyr Arg Leu Glu Val Pro Glu Ser Val Thr Val Gln Glu Gly Leu
          115          120          125
Cys Val Ser Val Pro Trp Gln Cys Pro Leu Pro Pro Leu Gln Leu Asp
          130          135          140

```

Cys Leu  
145 146

<210> 1411  
<211> 250  
<212>Amino acid  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<222> (1)...(250)  
<223> X = any amino acid or stop code

<400> 1411  
Gln Leu Gln Leu Cys Gln Asn Cys Thr Lys Arg Gly Glu Cys His Cys  
1 5 10 15  
Val Pro Phe Asp Thr Tyr Ile Lys Thr Lys Lys Glu Lys Lys Arg Leu  
20 25 30  
Ser Val Leu Pro Pro Thr Arg Leu Met Glu Ala Arg Phe Ser Pro Ile  
35 40 45  
Asn Gln Ile Leu Pro Trp Cys Arg Gln Asp Leu Ala Ile Ser Ile Ser  
50 55 60  
Lys Ala Ile Asn Thr Gln Glu Ala Pro Val Lys Glu Lys His Ala Arg  
65 70 75 80  
Arg Ile Ile Leu Gly Thr His His Glu Lys Gly Ala Phe Thr Phe Trp  
85 90 95  
Ser Tyr Ala Ile Gly Leu Pro Leu Pro Ser Ser Ser Ile Leu Ser Trp  
100 105 110  
Lys Phe Cys His Val Leu His Lys Val Leu Arg Asp Gly His Pro Asn  
115 120 125  
Val Leu His Asp Cys Gln Arg Tyr Arg Ser Asn Ile Arg Glu Ile Gly  
130 135 140  
Asp Leu Trp Gly His Leu His Asp Arg Tyr Gly Gln Leu Val Asn Val  
145 150 155 160  
Tyr Thr Lys Leu Leu Leu Thr Lys Ile Ser Phe His Leu Lys His Pro  
165 170 175  
Gln Phe Pro Ala Gly Leu Glu Val Thr Asp Glu Val Leu Glu Lys Ala  
180 185 190  
Ala Gly Thr Asp Val Asn Asn Met Xaa Val Thr Leu His Gly Tyr Met  
195 200 205  
Ala Ser Ser Pro Arg Leu Pro His Ser Phe Leu Pro Arg Leu Thr Pro  
210 215 220  
Arg Arg Pro His Gly Ala Val Gly Leu Asn Glu Ser Val Ala Leu Leu  
225 230 235 240  
Val Asp Ala His Ala Pro Arg Asp Arg Gly  
245 250

<210> 1412  
<211> 169  
<212>Amino acid  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<222> (1)...(169)  
<223> X = any amino acid or stop code



&lt;400&gt; 1412

```

Ala Ala Pro His Arg Met Pro Arg Ala Pro His Phe Met Pro Leu Leu
 1              5              10              15
Leu Leu Leu Leu Leu Ser Leu Pro His Thr Gln Ala Ala Phe Pro
              20              25              30
Gln Asp Pro Leu Pro Leu Leu Ile Ser Asp Leu Gln Gly Thr Ser Pro
              35              40              45
Leu Ser Trp Leu Pro Ser Leu Glu Asp Asp Ala Val Ala Ala Xaa Leu
              50              55              60
Gly Leu Asp Phe Gln Arg Phe Leu Thr Leu Asn Arg Thr Leu Leu Val
 65              70              75              80
Ala Ala Arg Asp His Val Phe Ser Phe Asp Leu Gln Ala Glu Glu Glu
              85              90              95
Gly Glu Gly Leu Val Pro Asn Lys Tyr Leu Thr Trp Arg Ser Gln Asp
              100             105             110
Val Glu Asn Cys Ala Val Arg Xaa Lys Leu Thr Leu Asn Arg Thr Leu
              115             120             125
Leu Val Ala Ala Arg Asp His Val Phe Ser Phe Asp Leu Gln Ala Glu
              130             135             140
Glu Glu Gly Glu Gly Leu Val Pro Asn Lys Tyr Leu Thr Trp Arg Ser
145             150             155             160
Gln Asp Val Glu Asn Cys Ala Val Arg
              165             169

```

&lt;210&gt; 1413

&lt;211&gt; 131

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(131)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1413

```

His Leu Val Pro Lys Thr Arg Gly Arg Gly Thr Pro Ser Gly Asp Gln
 1              5              10              15
Ser Pro Val Leu Thr Leu Thr Pro Xaa Gly Asp Pro Pro Thr Ile Leu
              20              25              30
Gly Pro Gln Thr Asn Gln Pro Lys Glu His Leu Thr Asn Phe Lys Ser
              35              40              45
Gly Lys Arg Ser Phe His Ser Leu Leu Gln Pro Leu Leu Leu Leu Leu
 50              55              60
His Pro Ser Ile Ser Pro Phe Leu Asn Phe Gly Ser Phe Pro Phe Leu
 65              70              75              80
Val Glu Thr Glu Glu Thr Cys Phe Ile His Lys Leu Lys Thr Pro Ala
              85              90              95
Leu Val Thr Pro Asp Ser Leu Pro Leu Val Phe Asn His Cys Gly Asp
              100             105             110
Ala Cys Leu Ile Ile His Pro His Phe Arg Asp Val Glu Phe His His
              115             120             125
Thr Gly Asn
130 131

```

&lt;210&gt; 1414

<211> 365  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1414  
 Cys Cys Ser Thr Lys Asn Ile Ser Gly Asp Lys Ala Cys Asn Leu Met  
 1 5 10 15  
 Ile Phe Asp Thr Arg Lys Thr Ala Arg Gln Pro Asn Cys Tyr Leu Phe  
 20 25 30  
 Phe Cys Pro Asn Glu Glu Ala Cys Pro Leu Lys Pro Ala Lys Gly Leu  
 35 40 45  
 Met Ser Tyr Arg Ile Ile Thr Asp Phe Pro Ser Leu Thr Arg Asn Leu  
 50 55 60  
 Pro Ser Gln Glu Leu Pro Gln Glu Asp Ser Leu Leu His Gly Gln Phe  
 65 70 75 80  
 Ser Gln Ala Val Thr Pro Leu Ala His His His Thr Asp Tyr Ser Lys  
 85 90 95  
 Pro Thr Asp Ile Ser Trp Arg Asp Thr Leu Ser Gln Lys Phe Gly Ser  
 100 105 110  
 Ser Asp His Leu Glu Lys Leu Phe Lys Met Asp Glu Ala Ser Ala Gln  
 115 120 125  
 Leu Leu Ala Tyr Lys Glu Lys Gly His Ser Gln Ser Ser Gln Phe Ser  
 130 135 140  
 Ser Asp Gln Glu Ile Ala His Leu Leu Pro Glu Asn Val Ser Ala Leu  
 145 150 155 160  
 Pro Ala Thr Val Ala Val Ala Ser Pro His Thr Thr Ser Ala Thr Pro  
 165 170 175  
 Lys Pro Ala Thr Leu Leu Pro Thr Asn Ala Ser Val Thr Pro Ser Gly  
 180 185 190  
 Thr Ser Gln Pro Gln Leu Ala Thr Thr Ala Pro Pro Val Thr Thr Val  
 195 200 205  
 Thr Ser Gln Pro Pro Thr Thr Leu Ile Ser Thr Val Phe Thr Arg Ala  
 210 215 220  
 Ala Ala Thr Leu Gln Ala Met Ala Thr Thr Ala Val Leu Thr Thr Thr  
 225 230 235 240  
 Phe Gln Ala Pro Thr Asp Ser Lys Gly Ser Leu Glu Thr Ile Pro Phe  
 245 250 255  
 Thr Glu Ile Ser Asn Leu Thr Leu Asn Thr Gly Asn Val Tyr Asn Pro  
 260 265 270  
 Thr Ala Leu Ser Met Ser Asn Val Glu Ser Ser Thr Met Asn Lys Thr  
 275 280 285  
 Ala Ser Trp Glu Gly Arg Glu Ala Ser Pro Gly Ser Ser Ser Gln Gly  
 290 295 300  
 Ser Val Pro Glu Asn Gln Tyr Gly Leu Pro Phe Glu Lys Trp Leu Leu  
 305 310 315 320  
 Ile Gly Ser Leu Leu Phe Gly Val Leu Phe Leu Val Ile Gly Leu Val  
 325 330 335  
 Leu Leu Gly Arg Ile Leu Ser Glu Ser Leu Arg Arg Lys Arg Tyr Ser  
 340 345 350  
 Arg Leu Asp Tyr Leu Ile Asn Gly Ile Tyr Val Asp Ile  
 355 360 365

<210> 1415  
 <211> 148  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

&lt;222&gt; (1)...(148)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1415

```

Ile Phe Ala Gly Ser Gly Val Met Arg Leu Lys Ile Ser Leu Leu Lys
 1           5           10           15
Glu Pro Lys His Gln Glu Leu Val Ser Cys Val Gly Trp Thr Thr Ala
          20           25           30
Glu Glu Leu Tyr Ser Cys Ser Asp Asp His His Ile Val Lys Trp Asn
          35           40           45
Leu Leu Thr Ser Glu Thr Thr Gln Ile Val Lys Leu Pro Asp Asp Ile
          50           55           60
Tyr Pro Ile Asp Phe His Trp Phe Pro Lys Ser Leu Gly Val Lys Lys
          65           70           75           80
Gln Thr His Ala Glu Ser Phe Val Leu Thr Ser Ser Asp Gly Lys Phe
          85           90           95
His Leu Ile Ser Lys Leu Gly Arg Val Glu Lys Ser Val Glu Ala His
          100          105          110
Cys Gly Ala Val Leu Ala Gly Arg Trp Asn Tyr Glu Gly Thr Ala Leu
          115          120          125
Val Thr Val Gly Glu Asp Gly Gln Ile Xaa Ile Trp Ser Lys Thr Gly
          130          135          140
Met Leu Ile Ser
145           148

```

&lt;210&gt; 1416

&lt;211&gt; 122

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(122)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1416

```

Ala Arg Ala Thr Thr Lys Arg His Phe Ile Leu Leu Phe Leu Phe Phe
 1           5           10           15
Leu Arg Arg Cys Leu Phe Leu Ser Pro Arg Met Glu Cys Asn Gly Ala
          20           25           30
Ile Leu Ala His Cys Asn Leu His Leu Pro Gly Ser Ser Ser Ser
          35           40           45
Ala Ser Ala Ser Xaa Val Ala Gly Ile Thr Asp Val Arg His His Ala
          50           55           60
Gln Leu Ile Leu Phe Val Phe Leu Val Glu Thr Gly Phe His Arg Val
          65           70           75           80
Gly Gln Ala Gly Leu Lys Leu Leu Thr Ser Gly Asp Leu Leu Thr Ser
          85           90           95
Ala Ser Gln Ser Ala Gly Ile Ile Met Gly Ile Ser His Cys Ala Gln
          100          105          110
Pro Lys Lys Ala Phe Xaa Thr Lys Thr Phe
          115          120          122

```

&lt;210&gt; 1417

<211> 138  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(138)  
 <223> X = any amino acid or stop code

<400> 1417  
 Glu Ala Gly Ser Asn Asp Asp Leu Ala Thr Xaa Lys Thr Cys Gly Arg  
 1 5 10 15  
 Ala Arg Pro Ser Ser Arg Ser Arg Gln Phe Gly Ser Arg Val Trp Asn  
 20 25 30  
 His Arg Gln Gly Val Arg Ser Ser Pro Gly Glu Gly Ala Gly Ser Arg  
 35 40 45  
 Ser Pro Cys Arg Arg Arg His Arg Arg Lys His Arg Arg Asn Val Gln  
 50 55 60  
 Ser Pro Xaa Arg Arg Arg Ser Arg Ser Cys Ser Arg Arg Ser Gly Arg  
 65 70 75 80  
 Cys Ser Val Ala Leu Gly Ala Cys Pro Val Ala Gly His Ser Arg  
 85 90 95  
 Gly Lys Val Val Cys Arg Arg Ala His Ala Ile Thr Gln Arg Arg Arg  
 100 105 110  
 Cys Cys Gly Phe Asp Pro Met Val His Pro Lys Glu His Arg Gly Xaa  
 115 120 125  
 Arg Glu Arg Ser Arg Lys Trp Ser Arg Ser  
 130 135 138

<210> 1418  
 <211> 92  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(92)  
 <223> X = any amino acid or stop code

<400> 1418  
 Ala Thr Ala Pro Gly Leu Phe Asn Phe Phe Xaa Phe Leu Phe Gln Cys  
 1 5 10 15  
 Arg Glu Glu His Lys Lys Lys Asn Pro Glu Val Pro Val Asn Phe Ala  
 20 25 30  
 Glu Phe Ser Lys Lys Cys Ser Gly Arg Trp Lys Thr Met Ser Ser Lys  
 35 40 45  
 Glu Lys Phe Lys Phe Gly Glu Met Ala Lys Ala Asp Glu Val Cys Tyr  
 50 55 60  
 Asp Arg Glu Met Lys Asp Tyr Gly Pro Ala Lys Gly Gly Lys Lys Lys  
 65 70 75 80  
 Asp Pro Asn Ala Pro Lys Arg Pro Pro Ser Gly Phe  
 85 90 92

<210> 1419

<211> 44  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1419  
 Leu Thr Val Asn Tyr Val Leu Val Phe Ser Arg Asp Ser Gly Leu Arg  
 1 5 10 15  
 Ala Ile Glu Asn Leu Met Gln Lys Lys Gly Lys Phe Asp Tyr Ile Leu  
 20 25 30  
 Leu Glu Thr Thr Gly Leu Ala Asp Pro Gly Lys Lys  
 35 40 44

<210> 1420  
 <211> .91  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1420  
 His Glu Ala Ala Leu Cys Arg Thr Arg Ala Val Ala Ala Glu Arg His  
 1 5 10 15  
 Phe Leu Arg Val Phe Leu Phe Phe Arg Pro Phe Arg Gly Val Gly Thr  
 20 25 30  
 Glu Ser Gly Ser Glu Ser Gly Ser Ser Lys Ala Lys Glu Pro Arg Thr  
 35 40 45  
 Pro Ser Ser Ser Tyr Gly Thr Ala Gln Tyr Arg Arg Trp Pro Ile Ala  
 50 55 60  
 Gln Glu Tyr Lys His Cys Thr Ala His Asn Asp Thr Gly Thr Leu Cys  
 65 70 75 80  
 Ser Glu Leu Arg Glu Pro Trp Arg Arg Pro Gln  
 85 90 91

<210> 1421  
 <211> 190  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(190)  
 <223> X = any amino acid or stop code

<400> 1421  
 Glu Gly Ser Ser Gln Ala Asn Thr Leu Arg Ser Arg Lys Glu Asn Arg  
 1 5 10 15  
 Asn Asn Leu Leu Ala Cys Leu Glu Ser His Val Leu Arg Xaa Gln Phe  
 20 25 30  
 Thr Glu Ser His Leu Cys Ser Leu Met Gly Asp Asn Pro Phe Gln Pro  
 35 40 45  
 Lys Ser Asn Ser Lys Met Ala Glu Leu Phe Met Glu Cys Glu Glu Glu  
 50 55 60

Glu Leu Glu Pro Trp Gln Lys Lys Val Lys Glu Val Glu Asp Asp Asp  
 65 70 75 80  
 Asp Asp Glu Pro Ile Phe Val Gly Glu Ile Ser Ser Ser Lys Pro Ala  
 85 90 95  
 Ile Ser Asn Ile Leu Asn Arg Val Asn Pro Ser Ser Tyr Ser Arg Gly  
 100 105 110  
 Leu Lys Asn Gly Ala Leu Ser Arg Gly Ile Thr Ala Ala Phe Lys Pro  
 115 120 125  
 Thr Ser Gln His Tyr Thr Asn Pro Thr Ser Asn Pro Val Pro Ala Ser  
 130 135 140  
 Pro Ile Asn Phe His Pro Glu Ser Arg Ser Ser Asp Ser Ser Val Ile  
 145 150 155 160  
 Gly Gln Pro Phe Ser Lys Pro Val Ser Val Ser Lys Thr Ile Arg Pro  
 165 170 175  
 Ala Gln Gly Ser Ile Gly Cys Cys Leu Ser Ile Ser Thr Val  
 180 185 190

<210> 1422  
 <211> 207  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1422  
 Cys Phe Ser Leu Glu Asp Ile Leu Asn Phe Phe Leu Gln Gly Phe Ser  
 1 5 10 15  
 Ala Gly Leu Phe Ala Phe Tyr His Asp Lys Asp Gly Asn Pro Leu Thr  
 20 25 30  
 Ser Arg Phe Ala Asp Gly Leu Pro Phe Asn Tyr Ser Leu Gly Leu  
 35 40 45  
 Tyr Gln Trp Ser Asp Lys Val Val Arg Lys Val Glu Arg Leu Trp Asp  
 50 55 60  
 Val Arg Asp Asn Lys Ile Val Arg His Thr Val Tyr Leu Leu Val Thr  
 65 70 75 80  
 Pro Arg Val Val Glu Glu Ala Arg Lys His Phe Asp Cys Pro Val Leu  
 85 90 95  
 Glu Gly Met Glu Leu Glu Asn Gln Gly Gly Val Gly Thr Glu Leu Asn  
 100 105 110  
 His Trp Glu Lys Arg Leu Leu Glu Asn Glu Ala Met Thr Gly Ser His  
 115 120 125  
 Thr Gln Asn Arg Val Leu Ser Arg Ile Thr Leu Ala Leu Met Glu Asp  
 130 135 140  
 Thr Gly Arg Gln Met Leu Ser Pro Tyr Cys Asp Thr Leu Arg Ser Asn  
 145 150 155 160  
 Pro Leu Gln Leu Thr Cys Arg Gln Asp Gln Arg Ala Val Ala Val Cys  
 165 170 175  
 Asn Leu Gln Lys Phe Pro Lys Pro Leu Pro Gln Glu Tyr Gln Tyr Phe  
 180 185 190  
 Asp Glu Leu Ser Gly Ile Pro Ala Glu Asp Leu Pro Tyr Tyr Gly  
 195 200 205 207

<210> 1423  
 <211> 423  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1423  
 Ala Ala Arg Arg Arg Arg Gln Leu Val Ser Arg Arg Arg Thr Ala Glu  
 1 5 10 15  
 Tyr Pro Arg Arg Arg Arg Ser Ser Pro Ser Ala Arg Pro Pro Asp Val  
 20 25 30  
 Pro Gly Gln Gln Pro Lys Ala Ala Lys Ser Pro Ser Pro Val Gln Gly  
 35 40 45  
 Lys Lys Ser Pro Arg Leu Leu Cys Ile Glu Lys Val Thr Thr Asp Lys  
 50 55 60  
 Asp Pro Lys Glu Glu Lys Glu Glu Glu Asp Asp Ser Ala Leu Pro Gln  
 65 70 75 80  
 Glu Val Ser Ile Ala Ala Ser Arg Pro Ser Arg Gly Trp Arg Ser Ser  
 85 90 95  
 Arg Thr Ser Val Ser Arg His Arg Asp Thr Glu Asn Thr Arg Ser Ser  
 100 105 110  
 Arg Ser Lys Thr Gly Ser Leu Gln Leu Ile Cys Lys Ser Glu Pro Asn  
 115 120 125  
 Thr Asp Gln Leu Asp Tyr Asp Val Gly Glu Glu His Gln Ser Pro Gly  
 130 135 140  
 Gly Ile Ser Ser Glu Glu Glu Glu Glu Glu Glu Glu Met Leu Ile  
 145 150 155 160  
 Ser Glu Glu Glu Ile Pro Phe Lys Asp Asp Pro Arg Asp Glu Thr Tyr  
 165 170 175  
 Lys Pro His Leu Glu Arg Glu Thr Pro Lys Pro Arg Arg Lys Ser Gly  
 180 185 190  
 Lys Val Lys Glu Glu Lys Glu Lys Lys Glu Ile Lys Val Glu Val Glu  
 195 200 205  
 Val Glu Val Lys Glu Glu Glu Asn Glu Ile Arg Glu Asp Glu Glu Pro  
 210 215 220  
 Pro Arg Lys Arg Gly Arg Arg Arg Lys Asp Asp Lys Ser Pro Arg Leu  
 225 230 235 240  
 Pro Lys Arg Arg Lys Lys Pro Pro Ile Gln Tyr Val Arg Cys Glu Met  
 245 250 255  
 Glu Gly Cys Gly Thr Val Leu Ala His Pro Arg Tyr Leu Gln His His  
 260 265 270  
 Ile Lys Tyr Gln His Leu Leu Lys Lys Lys Tyr Val Cys Pro His Pro  
 275 280 285  
 Ser Cys Gly Arg Leu Phe Arg Leu Gln Lys Gln Leu Leu Arg His Ala  
 290 295 300  
 Lys His His Thr Asp Gln Arg Asp Tyr Ile Cys Glu Tyr Cys Ala Arg  
 305 310 315 320  
 Ala Phe Lys Ser Ser His Asn Leu Ala Val His Arg Met Ile His Thr  
 325 330 335  
 Gly Glu Lys Pro Leu Gln Cys Glu Ile Cys Gly Phe Thr Cys Arg Gln  
 340 345 350  
 Lys Ala Ser Leu Asn Trp His Met Lys Lys His Asp Ala Asp Ser Phe  
 355 360 365  
 Tyr Gln Phe Ser Cys Asn Ile Cys Gly Lys Lys Phe Glu Lys Lys Asp  
 370 375 380  
 Ser Val Val Ala His Lys Ala Lys Ser His Pro Glu Val Leu Ile Ala  
 385 390 395 400  
 Glu Ala Leu Ala Ala Asn Ala Gly Ala Leu Ile Thr Ser Thr Asp Ile  
 405 410 415  
 Leu Gly Thr Asn Pro Glu Ser  
 420 423

&lt;210&gt; 1424

&lt;211&gt; 158

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

<400> 1424  
 Met Thr Ala Asn Arg Leu Ala Glu Ser Leu Leu Ala Leu Ser Gln Gln  
 1 5 10 15  
 Glu Glu Leu Ala Asp Leu Pro Lys Asp Tyr Leu Leu Ser Glu Ser Glu  
 20 25 30  
 Asp Glu Gly Asp Asn Asp Gly Glu Arg Lys His Gln Lys Leu Leu Glu  
 35 40 45  
 Ala Ile Ser Ser Leu Asp Gly Lys Asn Arg Arg Lys Leu Ala Glu Arg  
 50 55 60  
 Ser Glu Ala Ser Leu Lys Val Ser Glu Phe Asn Val Ser Ser Glu Gly  
 65 70 75 80  
 Ser Gly Glu Lys Leu Val Leu Ala Asp Leu Leu Glu Pro Val Lys Thr  
 85 90 95  
 Ser Ser Ser Leu Ala Thr Val Lys Lys Gln Leu Ser Arg Val Lys Ser  
 100 105 110  
 Lys Lys Thr Val Glu Leu Pro Leu Asn Lys Glu Glu Ile Glu Arg Ile  
 115 120 125  
 His Arg Glu Val Ala Phe Asn Lys Thr Ala Gln Val Leu Ser Lys Trp  
 130 135 140  
 Asp Pro Val Val Leu Lys Asn Arg Gln Ala Glu Gln Leu \*  
 145 150 155 157

<210> 1425

<211> 286

<212> Amino acid

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (1)...(286)

<223> X = any amino acid or stop code

<400> 1425  
 Arg Ile Asp Phe Met Phe His Ser Ser Ala Met Val Asn Ser His Arg  
 1 5 10 15  
 Lys Pro Met Phe Asn Ile His Arg Gly Phe Tyr Cys Leu Thr Ala Ile  
 20 25 30  
 Leu Pro Gln Ile Cys Ile Cys Ser Gln Phe Ser Val Pro Ser Ser Tyr  
 35 40 45  
 His Phe Thr Glu Asp Pro Gly Ala Phe Pro Val Ala Thr Asn Gly Glu  
 50 55 60  
 Arg Phe Pro Trp Gln Glu Leu Arg Leu Pro Ser Val Val Ile Pro Leu  
 65 70 75 80  
 His Tyr Asp Leu Phe Val His Pro Asn Leu Thr Ser Leu Asp Phe Val  
 85 90 95  
 Ala Ser Glu Lys Ile Glu Val Leu Val Ser Asn Ala Thr Gln Leu Ile  
 100 105 110  
 Ile Leu His Ser Lys Asp Leu Glu Ile Thr Asn Ala Thr Leu Gln Ser  
 115 120 125  
 Glu Glu Asp Ser Arg Tyr Met Lys Pro Gly Lys Glu Leu Lys Val Leu  
 130 135 140  
 Ser Tyr Pro Ala His Glu Gln Ile Ala Leu Leu Val Pro Glu Lys Leu  
 145 150 155 160  
 Thr Pro His Leu Lys Tyr Tyr Val Ala Met Asp Phe Gln Ala Lys Leu  
 165 170 175  
 Gly Asp Gly Phe Glu Gly Phe Tyr Lys Ser Thr Tyr Arg Thr Leu Gly



			180					185					190			
Gly	Glu	Thr	Arg	Ile	Leu	Ala	Val	Thr	Asp	Phe	Glu	Pro	Thr	Gln	Ala	
			195				200					205				
Arg	Met	Ala	Phe	Pro	Cys	Phe	Asp	Glu	Pro	Leu	Phe	Lys	Ala	Asn	Phe	
			210			215						220				
Ser	Ile	Lys	Ile	Arg	Arg	Glu	Ser	Arg	His	Ile	Ala	Leu	Ser	Asn	Met	
225					230					235					240	
Pro	Lys	Val	Lys	Thr	Ile	Glu	Leu	Glu	Gly	Gly	Leu	Leu	Glu	Asp	His	
				245					250					255		
Phe	Glu	Thr	Thr	Val	Lys	Met	Ser	Thr	Tyr	Leu	Val	Ala	Tyr	Ile	Asp	
			260					265					270			
Leu	Xaa	Phe	Pro	Leu	Met	Gly	Asn	Asp	Phe	Leu	Gly	Arg	Ser			
		275					280					285	286			

```
<210> 1426
<211> 224
<212> Amino acid
<213> Homo sapiens
```

<400> 1426															
Arg 1	Ser	Lys	Ile	Pro 5	Arg	Ser	Asp ,	Pro	Arg 10	Val	Arg	Thr	Pro	Ala 15	Pro
Ala	Glu	Ala	Glu	Gln	Gly	Lys	Ser	Gln	Cys 25	Pro	Ser	Gly	Ser	Thr 30	Ala
Gln	Ser	Trp 35	Ser	Ala	Met	Asp 40	Ile	Leu	Val	Pro	Leu	Leu	Gln	Leu 45	Leu
Val	Leu 50	Leu	Leu	Thr	Leu	Pro 55	Leu	His	Leu	Met 60	Ala	Leu	Leu	Gly	Cys
Trp 65	Gln	Pro	Leu	Cys	Lys 70	Ser	Tyr	Phe	Pro	Tyr 75	Leu	Met	Ala	Val 80	Leu
Thr	Pro	Lys	Ser	Asn 85	Arg	Lys	Met	Glu	Ser 90	Lys	Lys	Arg	Glu	Leu 95	Phe
Ser	Gln	Ile	Lys 100	Gly	Leu	Thr	Gly	Ala 105	Ser	Gly	Lys	Val	Ala 110	Leu	Leu
Glu	Leu	Gly 115	Cys	Gly	Thr	Gly	Ala 120	Asn	Phe	Gln	Phe	Tyr 125	Pro	Pro	Gly
Cys 130	Arg	Val	Thr	Cys	Leu	Asp 135	Pro	Asn	Pro	His 140	Phe	Glu	Lys	Phe	Leu
Thr 145	Lys	Ser	Met	Ala	Glu 150	Asn	Arg	His	Leu	Gln 155	Tyr	Glu	Arg	Phe 160	Val
Val	Ala	Pro	Gly	Glu 165	Asp	Met	Arg	Gln	Leu 170	Ala	Asp	Gly	Ser	Met 175	Asp
Val	Val	Val	Cys 180	Thr	Leu	Val	Leu	Cys 185	Ser	Val	Gln	Ser	Pro 190	Arg	Lys
Val	Leu	Gln 195	Glu	Val	Arg	Arg	Val 200	Leu	Arg	Pro	Gly	Gly 205	Val	Leu	Phe
Phe	Trp 210	Glu	His	Val	Ala	Glu 215	Pro	Tyr	Gly	Ser	Trp 220	Ala	Phe	Met 224	Trp

```
<210> 1427
<211> 133
<212> Amino acid
<213> Homo sapiens
```

&lt;400&gt; 1427

```

Arg Leu Gln Asn Ser Ser Leu Met Asp Pro Lys Leu Gly Arg Met Ala
 1              5              10              15
Ala Ser Leu Leu Ala Val Leu Leu Leu Leu Leu Glu Arg Gly Met
      20              25              30
Phe Ser Ser Pro Ser Pro Pro Ala Leu Leu Glu Lys Val Phe Gln
      35              40              45
Tyr Ile Asp Leu His Gln Asp Glu Phe Val Gln Thr Leu Lys Glu Trp
      50              55              60
Val Ala Ile Glu Ser Asp Ser Val Gln Pro Val Pro Arg Phe Arg Gln
      65              70              75              80
Glu Leu Phe Arg Met Met Ala Val Ala Ala Asp Thr Leu Gln Arg Leu
      85              90              95
Gly Ala Arg Val Ala Ser Val Asp Met Gly Pro Gln Gln Leu Pro Asp
      100             105             110
Gly Gln Ser Leu Pro Ile Pro Pro Val Ile Leu Ala Glu Leu Gly Ser
      115             120             125
Asp Pro Thr Lys Gly
      130             133

```

&lt;210&gt; 1428

&lt;211&gt; 38

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1428

```

Phe Phe Phe Phe Glu Met Glu Ser Cys Ser Val Thr Gln Ala Gly Val
 1              5              10              15
Pro Trp His Asp Leu Ser Ser Leu Gln Pro Pro Pro Pro Arg Phe Lys
      20              25              30
Arg Phe Ser Cys Leu Ser
      35              38

```

&lt;210&gt; 1429

&lt;211&gt; 145

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1429

```

Asp Pro Lys Ala Gln Leu Pro Glu Pro Leu Arg Val Leu Trp Thr Ala
 1              5              10              15
His Leu Val Ala Met Ala Pro Gly Ser Arg Thr Ser Leu Leu Ala
      20              25              30
Phe Ala Leu Leu Cys Leu Pro Trp Leu Gln Glu Ala Gly Ala Val Gln
      35              40              45
Thr Val Pro Leu Ser Arg Leu Phe Asp His Ala Met Leu Gln Ala His
      50              55              60
Arg Ala His Gln Leu Ala Ile Asp Thr Tyr Gln Glu Phe Glu Glu Thr
      65              70              75              80
Tyr Ile Pro Lys Asp Gln Lys Tyr Ser Phe Leu His Asp Ser Gln Thr
      85              90              95
Ser Phe Cys Phe Ser Asp Ser Ile Pro Thr Pro Ser Asn Met Glu Glu

```

```

      100      105      110
Thr Gln Gln Lys Ser Asn Leu Glu Leu Leu Arg Ile Ser Leu Leu Leu
      115      120      125
Ile Glu Ser Trp Leu Glu Pro Val Arg Ile Leu Met Ser Ile Val Pro
      130      135      140
Asn
145

```

```

<210> 1430
<211> 453
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1430
Phe Val Lys Leu Ile Lys Lys His Gln Ala Ala Met Glu Lys Glu Ala
  1      5      10      15
Lys Val Met Ser Asn Glu Glu Lys Lys Phe Gln Gln His Ile Gln Ala
      20      25      30
Gln Gln Lys Lys Glu Leu Asn Ser Phe Leu Glu Ser Gln Lys Arg Glu
      35      40      45
Tyr Lys Leu Arg Lys Glu Gln Leu Lys Glu Glu Leu Asn Glu Asn Gln
      50      55      60
Ser Thr Pro Lys Lys Glu Lys Gln Glu Trp Leu Ser Lys Gln Lys Glu
      65      70      75      80
Asn Ile Gln His Phe Gln Ala Glu Glu Glu Ala Asn Leu Leu Arg Arg
      85      90      95
Gln Arg Gln Tyr Leu Glu Leu Glu Cys Arg Arg Phe Lys Arg Arg Met
      100      105      110
Leu Leu Gly Arg His Asn Leu Glu Gln Asp Leu Val Arg Glu Glu Leu
      115      120      125
Asn Lys Arg Gln Thr Gln Lys Asp Leu Glu His Ala Met Leu Leu Arg
      130      135      140
Gln His Glu Ser Met Gln Glu Leu Glu Phe Arg His Leu Asn Thr Ile
      145      150      155      160
Gln Lys Met Arg Cys Glu Leu Ile Arg Leu Gln His Gln Thr Glu Leu
      165      170      175
Thr Asn Gln Leu Glu Tyr Asn Lys Arg Arg Glu Arg Glu Leu Arg Arg
      180      185      190
Lys His Val Met Glu Val Arg Gln Gln Pro Lys Ser Leu Lys Ser Lys
      195      200      205
Glu Leu Gln Ile Lys Lys Gln Phe Gln Asp Thr Cys Lys Ile Gln Thr
      210      215      220
Arg Gln Tyr Lys Ala Leu Arg Asn His Leu Leu Glu Thr Thr Pro Lys
      225      230      235      240
Ser Glu His Lys Ala Val Leu Lys Arg Leu Lys Glu Glu Gln Thr Arg
      245      250      255
Lys Leu Ala Ile Leu Ala Glu Gln Tyr Asp His Ser Ile Asn Glu Met
      260      265      270
Leu Ser Thr Gln Ala Leu Arg Leu Asp Glu Ala Gln Glu Ala Glu Cys
      275      280      285
Gln Val Leu Lys Met Gln Leu Gln Gln Glu Leu Glu Leu Leu Asn Ala
      290      295      300
Tyr Gln Ser Lys Ile Lys Met Gln Ala Glu Ala Gln His Asp Arg Glu
      305      310      315      320
Leu Arg Glu Leu Glu Gln Arg Val Ser Leu Arg Arg Ala Leu Leu Glu
      325      330      335
Gln Lys Ile Glu Glu Glu Met Leu Ala Leu Gln Asn Glu Arg Thr Glu
      340      345      350
Arg Ile Arg Ser Leu Leu Glu Arg Gln Ala Arg Glu Ile Glu Ala Phe

```

```

      355              360              365
Asp Ser Glu Ser Met Arg Leu Gly Phe Ser Asn Met Val Leu Ser Asn
      370              375              380
Leu Ser Pro Glu Ala Phe Ser His Ser Tyr Pro Gly Ala Ser Gly Trp
385              390              395              400
Ser His Asn Pro Thr Gly Gly Pro Gly Pro His Trp Gly His Pro Met
      405              410              415
Gly Gly Pro Pro Gln Ala Trp Gly His Pro Met Gln Gly Gly Pro Gln
      420              425              430
Pro Trp Gly His Pro Ser Gly Pro Met Gln Gly Val Pro Arg Gly Ser
      435              440              445
Ser Met Gly Val Arg
      450              453

```

```

<210> 1431
<211> 151
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1431
Leu Ala His Gly Ser Phe Gly Val Ser Asp Phe Pro Ala Pro Ala Ala
 1              5              10              15
Ala Pro Ala His Thr Leu Thr Ser Phe Ser Gly Ser Leu Ser Pro Gln
      20              25              30
Phe Arg Lys Pro Leu Gly Arg Ala Pro Ala Met Pro Leu Val Arg Tyr
      35              40              45
Arg Lys Val Val Ile Leu Gly Tyr Arg Cys Val Gly Lys Thr Ser Leu
      50              55              60
Ala His Gln Phe Val Glu Gly Glu Phe Ser Glu Gly Tyr Asp Pro Thr
      65              70              75              80
Val Glu Asn Thr Tyr Ser Lys Ile Val Thr Leu Gly Lys Asp Glu Phe
      85              90              95
His Leu His Leu Val Asp Thr Ala Gly Gln Asp Glu Tyr Ser Ile Leu
      100              105              110
Pro Tyr Ser Phe Ile Ile Gly Val His Gly Tyr Val Leu Val Tyr Ser
      115              120              125
Val Thr Ser Leu His Ser Phe Gln Val Ile Glu Ser Leu Tyr Gln Lys
      130              135              140
Leu His Glu Gly His Gly Lys
145              150 151

```

```

<210> 1432
<211> 514
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1432
Ser Ser Pro Ser Arg Glu Leu Cys Phe Tyr Gly Phe Trp Ile Ala Ser
 1              5              10              15
Ser Trp Trp Ser Arg Trp Val Gly Ser Leu Gly Pro Gly Ile Leu Pro
      20              25              30
Ser Pro Pro Ala Arg Gly Arg Thr Phe Ala Ser Val Ser Arg Leu Pro
      35              40              45
Pro Pro Trp Ser Ala Gly Ile Thr Leu Thr Pro Phe Leu Ile Cys Gln

```

50	55	60			
Ser Gly Ser Val Cys Pro Gly Leu Gly Ala Gly Phe Gly Val Arg Ser					
65	70	75	80		
Phe His His Pro Val Ala Arg Ser Ala Val Leu Leu Leu Pro Leu Ala					
	85	90	95		
Pro Ala Ala Ala Gln Asp Ser Thr Gln Ala Ser Thr Pro Gly Ser Pro					
	100	105	110		
Leu Ser Pro Thr Glu Tyr Glu Arg Phe Phe Ala Leu Leu Thr Pro Thr					
	115	120	125		
Trp Lys Ala Glu Thr Thr Cys Arg Leu Arg Ala Thr His Gly Cys Arg					
	130	135	140		
Asn Pro Thr Leu Val Gln Leu Asp Gln Tyr Glu Asn His Gly Leu Val					
	145	150	155		160
Pro Asp Gly Ala Val Cys Ser Asn Leu Pro Tyr Ala Ser Trp Phe Glu					
	165	170	175		
Ser Phe Cys Gln Phe Thr His Tyr Arg Cys Ser Asn His Val Tyr Tyr					
	180	185	190		
Ala Lys Arg Val Leu Cys Ser Gln Pro Val Ser Ile Leu Ser Pro Asn					
	195	200	205		
Thr Leu Lys Glu Ile Glu Ala Ser Ala Glu Val Ser Pro Thr Thr Met					
	210	215	220		
Thr Ser Pro Ile Ser Pro His Phe Thr Val Thr Glu Arg Gln Thr Phe					
	225	230	235		240
Gln Pro Trp Pro Glu Arg Leu Ser Asn Asn Val Glu Glu Leu Leu Gln					
	245	250	255		
Ser Ser Leu Ser Leu Gly Gly Gln Glu Gln Ala Pro Glu His Lys Gln					
	260	265	270		
Glu Gln Gly Val Glu His Arg Gln Glu Pro Thr Gln Glu His Lys Gln					
	275	280	285		
Glu Glu Gly Gln Lys Gln Glu Glu Gln Glu Glu Glu Gln Glu Glu					
	290	295	300		
Gly Lys Gln Glu Glu Gly Gln Gly Thr Lys Glu Gly Arg Glu Ala Val					
	305	310	315		320
Ser Gln Leu Gln Thr Asp Ser Glu Pro Lys Phe His Ser Glu Ser Leu					
	325	330	335		
Ser Ser Asn Pro Ser Ser Phe Ala Pro Arg Val Arg Glu Val Glu Ser					
	340	345	350		
Thr Pro Met Ile Met Glu Asn Ile Gln Glu Leu Ile Arg Ser Ala Gln					
	355	360	365		
Glu Ile Asp Glu Met Asn Glu Ile Tyr Asp Glu Asn Ser Tyr Trp Arg					
	370	375	380		
Asn Gln Asn Pro Gly Ser Leu Leu Gln Leu Pro His Thr Glu Ala Leu					
	385	390	395		400
Leu Val Leu Cys Tyr Ser Ile Val Glu Asn Thr Cys Ile Ile Thr Pro					
	405	410	415		
Thr Ala Lys Ala Trp Lys Tyr Met Glu Glu Glu Ile Leu Gly Phe Gly					
	420	425	430		
Lys Ser Val Cys Asp Ser Leu Gly Arg Arg His Met Ser Thr Cys Ala					
	435	440	445		
Leu Cys Asp Phe Cys Ser Leu Lys Leu Glu Gln Cys His Ser Glu Ala					
	450	455	460		
Ser Leu Gln Arg Gln Gln Cys Asp Thr Ser His Lys Thr Pro Phe Val					
	465	470	475		480
Ser Pro Leu Leu Ala Ser Gln Ser Leu Ser Ile Gly Asn Gln Val Gly					
	485	490	495		
Ser Pro Glu Ser Gly Arg Phe Tyr Gly Leu Asp Leu Tyr Gly Gly Leu					
	500	505	510		
His Met					
514					

&lt;210&gt; 1433

&lt;211&gt; 241

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(241)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1433

```

Val Ser Trp Val Pro Ser Lys Asp Gly Asp Val Glu Gly Ala Arg Arg
 1          5          10          15
Pro Phe Thr Arg Leu Asn Thr Ser Leu Gly Pro Gly Leu Gln Glu Gly
          20          25          30
Arg Arg Arg Thr Trp Leu Val Pro Ile Pro Gly Ala Val Leu Pro Gly
          35          40          45
Arg Thr Gln Glu Gln Pro Arg Ala Ser Pro Leu Tyr Xaa Pro Gly Ala
          50          55          60
Pro Pro Cys Gln Pro Gln Gly Leu Val Ala Gly Pro Trp Ala Gln Xaa
          65          70          75          80
Ala Gly Leu Arg Ser Asp Gly Phe Gly Pro Trp Pro Trp Arg Leu Val
          85          90          95
Gly Thr Ala Gly Pro Arg Glu Lys Lys Val Gln Lys Ser Lys Cys Trp
          100          105          110
His Phe Arg Cys Gly Arg His Pro Ala Arg Arg Ser Gly Trp Ala Gly
          115          120          125
Arg His Ala Ser Leu Leu Ala Thr Gly Arg Pro Cys Ser Ser Ala Pro
          130          135          140
Ser Gln Gln Pro Leu Gly Thr Ala Gly Asp Ser Arg Gln Glu Leu Leu
          145          150          155          160
Arg Pro Pro Leu Val Xaa Val Asn Gly Ala Gln Ser Ser Ala Ala Gly
          165          170          175
Asp Trp Gly Ser Ser Pro Arg Thr Ala Gln Ala Leu Ala Arg Pro His
          180          185          190
Arg Leu Gly His His Pro Ala Ala Val Ala Pro Ala Ala Arg Leu Arg
          195          200          205
Thr Gln Ser Gly His Ser Pro Arg Gly Pro Leu Cys Arg Ser Pro Gly
          210          215          220
Ser Pro Arg Arg Met Gly Thr Trp Arg Gly Pro Ala Gly His Ser His
          225          230          235          240
Asp
241

```

&lt;210&gt; 1434

&lt;211&gt; 127

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1434

```

Lys Thr Val Ala Glu Glu Ala Ser Val Gly Asn Pro Glu Gly Ala Phe
 1          5          10          15
Met Lys Met Leu Gln Ala Arg Lys Gln His Met Ser Thr Glu Leu Thr
          20          25          30
Ile Glu Ser Glu Ala Pro Ser Asp Ser Ser Gly Ile Asn Leu Ser Gly
          35          40          45
Phe Gly Ser Glu Gln Leu Asp Thr Asn Asp Glu Ser Asp Val Ser Ser
          50          55          60

```

Ala Leu Ser Tyr Ile Leu Pro Tyr Leu Ser Leu Arg Asn Leu Gly Ala  
 65 70 75 80  
 Glu Ser Ile Leu Leu Pro Phe Thr Glu Gln Leu Phe Ser Asn Val Gln  
 85 90 95  
 Asp Gly Asp Arg Leu Leu Ser Ile Leu Lys Asn Asn Arg Lys Ser Pro  
 100 105 110  
 Ser Gln Ser Ser Leu Leu Gly Asn Lys Phe Lys Asn Lys Ile Phe  
 115 120 125 127

<210> 1435  
 <211> 182  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1435  
 Gly Glu Cys Phe Ile Met Ala Ala Val Val Gln Gln Asn Asp Leu Val  
 1 5 10 15  
 Phe Glu Phe Ala Ser Asn Val Met Glu Asp Glu Arg Gln Leu Gly Asp  
 20 25 30  
 Pro Ala Ile Phe Pro Ala Val Ile Val Glu His Val Pro Gly Ala Asp  
 35 40 45  
 Ile Leu Asn Ser Tyr Ala Gly Leu Ala Cys Val Glu Glu Pro Asn Asp  
 50 55 60  
 Met Ile Thr Glu Ser Ser Leu Asp Val Ala Glu Glu Glu Ile Ile Asp  
 65 70 75 80  
 Asp Asp Asp Asp Asp Ile Thr Leu Thr Val Glu Ala Ser Cys His Asp  
 85 90 95  
 Gly Asp Glu Thr Ile Glu Thr Ile Glu Ala Ala Glu Ala Leu Leu Asn  
 100 105 110  
 Met Asp Ser Pro Gly Pro Met Leu Asp Glu Lys Arg Ile Asn Asn Asn  
 115 120 125  
 Ile Phe Ser Ser Pro Glu Asp Asp Met Val Val Ala Pro Val Thr His  
 130 135 140  
 Val Ser Val Thr Leu Asp Gly Ile Pro Glu Val Met Glu Thr Gln Gln  
 145 150 155 160  
 Val Gln Glu Lys Tyr Ala Asp Ser Pro Gly Ala Ser Ser Pro Glu Gln  
 165 170 175  
 Pro Lys Arg Lys Lys Lys  
 180 182

<210> 1436  
 <211> 154  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1436  
 His Glu Ala Ser Gly Val Ser Arg Ala Leu Leu Gln Ser Ala Pro Gly  
 1 5 10 15  
 Thr Pro Ala Thr Val Gly Ile Ser Val Gly Glu Leu Trp Pro Phe Ala  
 20 25 30  
 Arg Cys Cys Ser His Ser Tyr Val Arg Ser Leu Arg Gly Leu Ser Val  
 35 40 45  
 Ser Thr His Leu Leu Cys Phe Thr Ile Tyr Ile Met Asn Pro Ser Met  
 50 55 60

```

Lys Gln Lys Gln Glu Glu Ile Lys Glu Asn Ile Lys Thr Ser Ser Val
 65              70              75              80
Pro Arg Arg Thr Leu Lys Met Ile Gln Pro Ser Ala Ser Gly Ser Leu
              85              90              95
Val Gly Arg Glu Asn Glu Leu Ser Ala Gly Leu Ser Lys Arg Lys His
              100             105             110
Arg Asn Asp His Leu Thr Ser Thr Thr Ser Ser Pro Gly Val Ile Val
              115             120             125
Pro Glu Ser Ser Glu Asn Lys Asn Leu Gly Gly Val Thr Gln Glu Ser
              130             135             140
Phe Asp Leu Met Ile Lys Gly Met Lys Lys
145              150              154

```

```

<210> 1437
<211> 63
<212>Amino acid
<213> Homo sapiens

```

```

<400> 1437
Pro Leu Pro Ala Arg Gly Lys Ser Thr Leu Pro Ala Thr Phe Cys Ser
 1              5              10              15
Pro Ser Ala Pro Glu Leu Ala Ser Met Ser Val Val Pro Pro Asn Arg
              20              25              30
Ser Gln Thr Gly Trp Pro Arg Gly Val Thr Gln Phe Gly Asn Lys Tyr
              35              40              45
Ile Gln Gln Thr Lys Pro Leu Thr Leu Glu Arg Thr Ile Asn Leu
 50              55              60              63

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<210> 1438
<211> 140
<212>Amino acid
<213> Homo sapiens

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<400> 1438
Ala Glu Gly Glu Asp Val Pro Pro Leu Pro Thr Ser Ser Gly Asp Gly
 1              5              10              15
Trp Glu Lys Asp Leu Glu Glu Ala Leu Glu Ala Gly Gly Cys Asp Leu
              20              25              30
Glu Thr Leu Arg Asn Ile Ile Gln Gly Arg Pro Leu Pro Ala Asp Leu
              35              40              45
Arg Ala Lys Val Trp Lys Ile Ala Leu Asn Val Ala Gly Lys Gly Asp
 50              55              60
Ser Leu Ala Ser Trp Asp Gly Ile Leu Asp Leu Pro Glu Gln Asn Thr
 65              70              75              80
Ile His Lys Asp Cys Leu Gln Phe Ile Asp Gln Leu Ser Val Pro Glu
              85              90              95
Glu Lys Ala Ala Glu Leu Leu Leu Asp Ile Glu Ser Val Ile Thr Phe
              100             105             110
Tyr Cys Lys Ser Arg Asn Ile Lys Tyr Ser Thr Ser Leu Ser Trp Ile
              115             120             125
His Leu Leu Lys Pro Leu Val His Leu Gln Leu Pro
130              135              140

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<210> 1439  
 <211> 84  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1439  
 Ala Leu Pro Lys Phe Leu Thr His Gly Val Lys Ser Asn Glu Arg Val  
   1                  5                  10                  15  
 Val Val Trp Leu Phe Pro Pro Ser Phe Arg Ala Ala Thr Met Val His  
           20                  25                  30  
 Met Asn Val Leu Pro Asp Ala Leu Lys Ser Ile Asn Asn Ala Glu Arg  
       35                  40                  45  
 Arg Gly Lys Pro Gln Val Leu Ile Arg Leu Cys Ser Lys Ile Ile Ile  
   50                  55                  60  
 Trp Phe Leu Thr Val Met Val Lys Tyr Gly Tyr Ile Gly Lys Phe Glu  
   65                  70                  75                  80  
 Pro Thr Arg Pro  
           84

<210> 1440  
 <211> 255  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1440  
 Ala Met Ala Gln Tyr Gly His Pro Ser Pro Leu Gly Met Ala Ala Arg  
   1                  5                  10                  15  
 Glu Glu Leu Tyr Ser Lys Val Thr Pro Arg Arg Asn Arg Gln Gln Arg  
           20                  25                  30  
 Pro Gly Thr Ile Lys His Gly Ser Ala Leu Asp Val Leu Leu Ser Met  
       35                  40                  45  
 Gly Phe Pro Arg Ala Arg Ala Gln Lys Ala Leu Ala Ser Thr Gly Gly  
   50                  55                  60  
 Arg Ser Val Gln Ala Ala Cys Asp Trp Leu Phe Ser His Val Gly Asp  
   65                  70                  75                  80  
 Pro Phe Leu Asp Asp Pro Leu Pro Arg Glu Tyr Val Leu Tyr Leu Arg  
           85                  90                  95  
 Pro Thr Gly Pro Leu Ala Gln Lys Leu Ser Asp Phe Trp Gln Gln Ser  
           100                  105                  110  
 Lys Gln Ile Cys Gly Lys Asn Lys Ala His Asn Ile Phe Pro His Ile  
       115                  120                  125  
 Thr Leu Cys Gln Phe Phe Met Cys Glu Asp Ser Lys Val Asp Ala Leu  
   130                  135                  140  
 Gly Glu Ala Leu Gln Thr Thr Val Ser Arg Trp Lys Cys Lys Phe Ser  
 145                  150                  155                  160  
 Ala Pro Leu Pro Leu Glu Leu Tyr Thr Ser Ser Asn Phe Ile Gly Leu  
           165                  170                  175  
 Phe Val Lys Glu Asp Ser Ala Glu Val Leu Lys Lys Phe Ala Ala Asp  
       180                  185                  190  
 Phe Ala Ala Glu Ala Ala Ser Lys Thr Glu Val His Val Glu Pro His  
       195                  200                  205  
 Lys Lys Gln Leu His Val Thr Leu Ala Tyr His Phe Gln Ala Ser His  
   210                  215                  220  
 Leu Pro Thr Leu Glu Lys Leu Ala Gln Asn Ile Asp Val Lys Leu Gly  
 225                  230                  235                  240

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<210> 1441
<211> 134
<212> Amino acid
<213> Homo sapiens
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<210> 1442
<211> 155
<212> Amino acid
<213> Homo sapiens
```

898

<210> 1443  
 <211> 157  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1443  
 Pro Ala Pro Ala Ala Arg Ser Arg Glu Leu Leu Lys Glu Leu Arg Asn  
 1 5 10 15  
 Gly Gln Asp Met Asp Thr Val Val Phe Glu Asp Val Val Val Asp Phe  
 20 25 30  
 Thr Leu Glu Glu Trp Ala Leu Leu Asn Pro Ala Gln Arg Lys Leu Tyr  
 35 40 45  
 Arg Asp Val Met Leu Glu Thr Phe Lys His Leu Ala Ser Val Asp Asn  
 50 55 60  
 Glu Ala Gln Leu Lys Ala Ser Gly Ser Ile Ser Gln Gln Asp Thr Ser  
 65 70 75 80  
 Gly Glu Lys Leu Ser Leu Lys Gln Lys Ile Glu Lys Phe Thr Arg Lys  
 85 90 95  
 Asn Ile Trp Ala Ser Leu Leu Gly Lys Asn Trp Glu Glu His Ser Val  
 100 105 110  
 Lys Asp Lys His Asn Thr Lys Glu Arg His Leu Ser Arg Asn Pro Arg  
 115 120 125  
 Val Glu Arg Pro Cys Lys Ser Ser Lys Gly Asn Lys Arg Gly Arg Thr  
 130 135 140  
 Phe Arg Lys Thr Arg Asn Cys Asn Arg His Leu Arg Arg  
 145 150 155 157

<210> 1444  
 <211> 53  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1444  
 Cys Val Cys Gly Phe Phe Val Cys Phe Glu Thr Lys Ser Cys Phe Val  
 1 5 10 15  
 Ala Gln Ala Gly Val Gln Trp His Asn Leu Ser Ser Leu Gln Ala Leu  
 20 25 30  
 Pro Pro Gly Phe Lys Gln Phe Ser Cys Leu Ser Leu Leu Ser Ser Trp  
 35 40 45  
 His Tyr Arg Arg Val  
 50 53

<210> 1445  
 <211> 106  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1445

Gly Thr Arg Leu Arg Arg Arg Arg Glu Ala Val Trp Phe Glu Val Val  
 1 5 10 15  
 Asn Met Asp Phe Ser Arg Leu His Met Tyr Ser Pro Pro Gln Cys Val  
 20 25 30  
 Pro Glu Asn Thr Gly Tyr Thr Tyr Ala Leu Ser Ser Ser Tyr Ser Ser  
 35 40 45  
 Asp Ala Leu Asp Phe Glu Thr Glu His Lys Leu Asp Pro Val Phe Asp  
 50 55 60  
 Ser Pro Arg Met Ser Arg Arg Ser Leu Arg Leu Ala Thr Thr Ala Cys  
 65 70 75 80  
 Thr Leu Gly Asp Gly Glu Ala Val Gly Ala Asp Ser Gly Thr Ser Ser  
 85 90 95  
 Ala Val Ser Leu Lys Asn Arg Ala Ala Arg  
 100 105 106

&lt;210&gt; 1446

&lt;211&gt; 95

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1446

Asp Thr Met Gln Ala Val Val Pro Leu Asn Lys Met Thr Ala Ile Ser  
 1 5 10 15  
 Pro Glu Pro Gln Thr Leu Ala Ser Thr Glu Gln Asn Glu Val Pro Arg  
 20 25 30  
 Val Val Thr Ser Gly Glu Gln Glu Ala Ile Leu Arg Gly Asn Ala Ala  
 35 40 45  
 Asp Ala Glu Ser Phe Arg Gln Arg Phe Arg Trp Phe Cys Tyr Ser Glu  
 50 55 60  
 Val Ala Gly Pro Arg Lys Ala Leu Ser Gln Leu Trp Glu Leu Cys Asn  
 65 70 75 80  
 Gln Trp Leu Arg Pro Asp Ile His Thr Lys Glu Gln Ile Leu Glu  
 85 90 95

&lt;210&gt; 1447

&lt;211&gt; 127

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1447

Pro Ile Cys Leu Phe Ser Arg Pro Thr Leu Arg Pro Ser Arg Ser Lys  
 1 5 10 15  
 Val Ser Leu Ile Glu Gly Arg Gly Ala Asn Met Ala Ala Arg Trp Arg  
 20 25 30  
 Phe Trp Cys Val Ser Val Thr Met Val Val Ala Leu Leu Ile Val Cys  
 35 40 45  
 Asp Val Pro Ser Ala Ser Ala Gln Arg Lys Lys Glu Met Val Leu Ser  
 50 55 60  
 Glu Lys Val Ser Gln Leu Met Glu Trp Thr Asn Lys Arg Pro Val Ile  
 65 70 75 80  
 Arg Met Asn Gly Asp Lys Phe Arg Arg Leu Val Lys Ala Pro Pro Arg  
 85 90 95  
 Asn Tyr Ser Val Ile Val Met Phe Thr Ala Leu Gln Leu His Arg Gln  
 100 105 110

Cys Val Val Cys Lys Tyr Glu Leu Gln Leu Arg Phe Lys Ile Lys  
 115 120 125 127

<210> 1448  
 <211> 143  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1448  
 Gln Met Arg Val Lys Asp Pro Thr Lys Ala Leu Pro Glu Lys Ala Lys  
 1 5 10 15  
 Arg Ser Lys Arg Pro Thr Val Pro His Asp Glu Asp Ser Ser Asp Asp  
 20 25 30  
 Ile Ala Val Gly Leu Thr Cys Gln His Val Ser His Ala Ile Ser Val  
 35 40 45  
 Asn His Val Lys Arg Ala Ile Ala Glu Asn Leu Trp Ser Val Cys Ser  
 50 55 60  
 Glu Cys Leu Lys Glu Arg Arg Phe Tyr Asp Gly Gln Leu Val Leu Thr  
 65 70 75 80  
 Ser Asp Ile Trp Leu Cys Leu Lys Cys Gly Phe Gln Gly Cys Gly Lys  
 85 90 95  
 Asn Ser Glu Ser Gln His Ser Leu Lys His Phe Lys Ser Ser Arg Thr  
 100 105 110  
 Glu Pro His Cys Ile Ile Ile Asn Leu Ser Thr Trp Ile Ile Trp Trp  
 115 120 125  
 Tyr Glu Trp Asp Glu Lys Ile Phe Thr Pro Leu Asn Lys Lys Gly  
 130 135 140 143

<210> 1449  
 <211> 121  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(121)  
 <223> X = any amino acid or stop code

<400> 1449  
 Ala Lys Glu Arg Gly Glu Glu Arg Gln Gly Glu Gly Gly Gly Trp Leu  
 1 5 10 15  
 Ser Gly Ser Arg Trp Pro Leu Val Arg Ser Ala Phe Val Pro Ala Pro  
 20 25 30  
 Ser Ser Leu Ile Leu Ser Met Cys Leu Ser Pro Gly Ile Pro Glu Ala  
 35 40 45  
 Ala Pro Asp Ser Pro Leu Thr Ala Ser Ala Pro Thr Pro Xaa Val Met  
 50 55 60  
 Leu Leu Gly Asp Thr Gly Val Gly Lys Thr Cys Phe Leu Ile Gln Phe  
 65 70 75 80  
 Lys Asp Gly Ala Phe Leu Ser Gly Thr Phe Ile Ala Thr Val Gly Ile  
 85 90 95  
 Asp Phe Arg Val Arg Trp Leu Gln Ala Leu Ala Ser Ser Arg Glu Pro  
 100 105 110  
 Gly Leu Trp Leu Arg His Gly Gly Val

115

120 121

<210> 1450  
 <211> 76  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1450  
 Phe Tyr Pro Arg Ser Ser Ala Asp Leu Pro Phe Gln Thr Thr Arg Cys  
 1 5 10 15  
 Glu Phe Gln Thr Ser Val Met Glu Leu Ala His Ser Leu Leu Leu Asn  
 20 25 30  
 Glu Glu Ala Leu Ala Gln Ile Thr Glu Ala Lys Arg Pro Val Phe Ile  
 35 40 45  
 Phe Glu Trp Leu Arg Phe Leu Asp Lys Val Leu Val Ala Ala Asn Lys  
 50 55 60  
 Val Trp Tyr Cys Ser Phe Phe Pro Val Ala Leu Thr  
 65 70 75 76

<210> 1451  
 <211> 95  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1451  
 Met Asn Met Lys Gln Lys Ser Val Tyr Gln Gln Thr Lys Ala Leu Leu  
 1 5 10 15  
 Cys Lys Asn Phe Leu Lys Lys Trp Arg Met Lys Arg Glu Ser Leu Leu  
 20 25 30  
 Glu Trp Gly Leu Ser Ile Leu Leu Gly Leu Cys Ile Ala Leu Phe Ser  
 35 40 45  
 Ser Ser Met Arg Asn Val Gln Phe Pro Gly Met Ala Pro Gln Asn Leu  
 50 55 60  
 Gly Arg Val Asp Lys Phe Asn Ser Ser Ser Leu Met Val Val Tyr Thr  
 65 70 75 80  
 Pro Ile Ser Asn Leu Thr Gln Gln Ile Met Asn Lys Thr Ala Leu  
 85 90 95

<210> 1452  
 <211> 174  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1452  
 Ser Pro Gln Gly Asn Gly Cys Pro Asp Val Thr Gly Asp Ser Val Ile  
 1 5 10 15  
 Arg Val Pro Leu Thr Leu Leu Val His Asn Leu Ala Gly Leu Thr Gly  
 20 25 30  
 Leu Leu His His Cys Leu Ser Gly Pro Leu Pro Ala Pro Ser Pro Pro

```

      35      40      45
Pro Ala Met Ser Ser Ser Arg Lys Asp His Leu Gly Ala Ser Ser Ser
  50      55      60
Glu Pro Leu Pro Val Ile Ile Val Gly Asn Gly Pro Ser Gly Ile Cys
  65      70      75      80
Leu Ser Tyr Leu Leu Ser Gly Tyr Thr Pro Tyr Thr Lys Pro Asp Ala
      85      90      95
Ile His Pro His Pro Leu Leu Gln Arg Lys Leu Thr Glu Ala Pro Gly
      100      105      110
Val Ser Ile Leu Asp Gln Asp Leu Asp Tyr Leu Ser Glu Gly Leu Glu
      115      120      125
Gly Arg Ser Gln Ser Pro Val Ala Leu Leu Phe Asp Ala Leu Leu Arg
      130      135      140
Pro Asp Thr Asp Phe Gly Gly Asn Met Lys Ser Val Leu Thr Trp Lys
      145      150      155      160
His Arg Lys Glu His Ala Ile Pro His Val Val Leu Gly Arg
      165      170      174

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<210> 1453  
 <211> 518  
 <212>Amino acid  
 <213> Homo sapiens

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      <400> 1453
Asn Arg Arg Thr Arg Ala Gln Arg Cys Gln Arg Gly Arg Ser Cys Gly
  1      5      10      15
Ala Arg Glu Glu Glu Val Glu Pro Gly Thr Ala Arg Pro Pro Pro Ala
      20      25      30
Ala Ser Ala Met Asp Ala Ser Leu Glu Lys Ile Ala Asp Pro Thr Leu
      35      40      45
Ala Glu Met Gly Lys Asn Leu Lys Glu Ala Val Lys Met Leu Glu Asp
      50      55      60
Ser Gln Arg Arg Thr Glu Glu Glu Asn Gly Lys Lys Leu Ile Ser Gly
      65      70      75      80
Asp Ile Pro Gly Pro Leu Gln Gly Ser Gly Gln Asp Met Val Ser Ile
      85      90      95
Leu Gln Leu Val Gln Asn Leu Met His Gly Asp Glu Asp Glu Glu Pro
      100      105      110
Gln Ser Pro Arg Ile Gln Asn Ile Gly Glu Gln Gly His Met Ala Leu
      115      120      125
Leu Gly His Ser Leu Gly Ala Tyr Ile Ser Thr Leu Asp Lys Glu Lys
      130      135      140
Leu Arg Lys Leu Thr Thr Arg Ile Leu Ser Asp Thr Thr Leu Trp Leu
      145      150      155      160
Cys Arg Ile Phe Arg Tyr Glu Asn Gly Cys Ala Tyr Phe His Glu Glu
      165      170      175
Glu Arg Glu Gly Leu Ala Lys Ile Cys Arg Leu Ala Ile His Ser Arg
      180      185      190
Tyr Glu Asp Phe Val Val Asp Gly Phe Asn Val Leu Tyr Asn Lys Lys
      195      200      205
Pro Val Ile Tyr Leu Ser Ala Ala Ala Arg Pro Gly Leu Gly Gln Tyr
      210      215      220
Leu Cys Asn Gln Leu Gly Leu Pro Phe Pro Cys Leu Cys Arg Val Pro
      225      230      235      240
Cys Asn Thr Val Phe Gly Ser Gln His Gln Met Asp Val Ala Phe Leu
      245      250      255
Glu Lys Leu Ile Lys Asp Asp Ile Glu Arg Gly Arg Leu Pro Leu Leu
      260      265      270
Leu Val Ala Asn Ala Gly Thr Ala Ala Val Gly His Thr Asp Lys Ile

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      275              280              285
Gly Arg Leu Lys Glu Leu Cys Glu Gln Tyr Gly Ile Trp Leu His Val
      290              295              300
Glu Gly Val Asn Leu Ala Thr Leu Ala Leu Gly Tyr Val Ser Ser Ser
305              310              315              320
Val Leu Ala Ala Ala Lys Cys Asp Ser Met Thr Met Thr Pro Gly Pro
      325              330              335
Trp Leu Gly Leu Pro Ala Val Pro Ala Val Thr Leu Tyr Lys His Asp
      340              345              350
Asp Pro Ala Leu Thr Leu Val Ala Gly Leu Thr Ser Asn Lys Pro Thr
      355              360              365
Asp Lys Leu Arg Ala Leu Pro Leu Trp Leu Ser Leu Gln Tyr Leu Gly
      370              375              380
Leu Asp Gly Phe Val Glu Arg Ile Lys His Ala Cys Gln Leu Ser Gln
385              390              395              400
Arg Leu Gln Glu Ser Leu Lys Lys Val Asn Tyr Ile Lys Ile Leu Val
      405              410              415
Glu Asp Glu Leu Ser Ser Pro Val Val Val Phe Arg Phe Phe Gln Glu
      420              425              430
Leu Pro Gly Ser Asp Pro Val Phe Lys Ala Val Pro Val Pro Asn Met
      435              440              445
Thr Pro Ser Gly Val Gly Arg Glu Arg His Ser Cys Asp Ala Leu Asn
      450              455              460
Arg Trp Leu Gly Glu Gln Leu Lys Gln Leu Val Pro Ala Ser Gly Leu
465              470              475              480
Thr Val Met Asp Leu Glu Ala Glu Gly Thr Cys Leu Arg Phe Ser Pro
      485              490              495
Leu Met Thr Ala Ala Gly Lys Pro Gly Leu Val Asp Ile Pro Cys Phe
      500              505              510
Cys Ser Gly Ala Ala Gly
      515              518

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&lt;210&gt; 1454

&lt;211&gt; 185

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1454

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Leu Cys Ile Met Asp Thr Lys Glu Glu Lys Lys Glu Arg Lys Gln Ser
 1              5              10              15
Tyr Phe Ala Arg Leu Lys Lys Lys Lys Gln Ala Lys Gln Asn Ala Glu
      20              25              30
Thr Ala Ser Ala Val Ala Thr Arg Thr His Thr Gly Lys Glu Asp Asn
      35              40              45
Asn Thr Val Val Leu Glu Pro Asp Lys Cys Asn Ile Ala Val Glu Glu
      50              55              60
Glu Tyr Met Thr Asp Glu Lys Lys Lys Arg Lys Ser Asn Gln Leu Lys
      65              70              75              80
Glu Ile Arg Arg Thr Glu Leu Lys Arg Tyr Tyr Ser Ile Asp Asp Asn
      85              90              95
Gln Asn Lys Thr His Asp Lys Lys Glu Lys Lys Met Val Val Gln Lys
      100              105              110
Pro His Gly Thr Met Glu Tyr Thr Ala Gly Asn Gln Asp Thr Leu Asn
      115              120              125
Ser Ile Ala Leu Lys Phe Asn Ile Thr Pro Asn Lys Leu Val Glu Leu
      130              135              140
Asn Lys Leu Phe Thr His Thr Ile Val Pro Gly Gln Val Leu Phe Val
145              150              155              160
Pro Asp Ala Asn Ser Pro Ser Ser Thr Leu Arg Leu Ser Ser Ser Ser

```



Pro Gly Ala Thr Val Ser Pro Ser Ser  
 180 185 170 175

<210> 1455  
 <211> 206  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1455  
 Ser Ala Gly Gly Asp Ser Cys Arg Ala Val Pro Met Leu Arg Phe Pro  
 1 5 10 15  
 Thr Cys Phe Pro Ser Phe Arg Val Val Gly Glu Lys Gln Leu Pro Gln  
 20 25 30  
 Glu Ile Ile Phe Leu Val Trp Ser Pro Lys Arg Asp Leu Ile Ala Leu  
 35 40 45  
 Ala Asn Thr Ala Gly Glu Val Leu Leu His Arg Leu Ala Ser Phe His  
 50 55 60  
 Arg Val Trp Ser Phe Pro Pro Asn Glu Asn Thr Gly Lys Glu Val Thr  
 65 70 75 80  
 Cys Leu Ala Trp Arg Pro Asp Gly Lys Leu Leu Ala Phe Ala Leu Ala  
 85 90 95  
 Asp Thr Lys Lys Ile Val Leu Cys Asp Val Glu Lys Pro Glu Ser Leu  
 100 105 110  
 His Ser Phe Ser Val Glu Ala Pro Val Ser Cys Met His Trp Met Glu  
 115 120 125  
 Val Thr Val Glu Ser Ser Val Leu Thr Ser Phe Tyr Asn Ala Glu Asp  
 130 135 140  
 Glu Ser Asn Leu Leu Leu Pro Lys Leu Pro Thr Leu Pro Lys Asn Tyr  
 145 150 155 160  
 Ser Asn Thr Ser Lys Ile Phe Ser Glu Glu Asn Ser Asp Glu Ile Ile  
 165 170 175  
 Lys Leu Leu Gly Asp Val Arg Leu Asn Ile Leu Val Leu Gly Gly Ser  
 180 185 190  
 Ser Gly Phe Ile Glu Leu Tyr Ala Tyr Gly Met Phe Lys Ile  
 195 200 205 206

<210> 1456  
 <211> 100  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1456  
 Pro Arg Asp Pro Val Thr Asp Arg Ala Arg Ala Met Pro Arg Arg Gly  
 1 5 10 15  
 Leu Val Ala Gly Pro Asp Leu Glu Tyr Phe Gln Arg His Tyr Phe Thr  
 20 25 30  
 Pro Ala Glu Val Ala Gln His Asn Arg Pro Glu Asp Leu Trp Val Ser  
 35 40 45  
 Tyr Leu Gly Arg Val Tyr Asp Leu Thr Ser Leu Ala Gln Glu Tyr Lys  
 50 55 60  
 Gly Asn Leu Leu Leu Lys Pro Ile Val Glu Val Ala Gly Gln Asp Ile  
 65 70 75 80  
 Ser His Trp Phe Asp Pro Lys Thr Arg Asp Val Ser Tyr Ala Gly Thr

Trp Asp Cys Gly  
100

85

90

95

<210> 1457  
<211> 159  
<212>Amino acid  
<213> Homo sapiens

<400> 1457  
Arg Ile Pro Gly Arg Arg Phe Arg Ala Ala Phe Val Leu Gly Ser Ala  
1 5 10 15  
Asn Val Ala Ser Ser Val Arg Leu Arg Cys Ser Phe Pro Leu Ser Leu  
20 25 30  
Gly Gly Pro Ser Gly Pro Ala Ala Ala Ser Val Ala Leu Gly Pro Ala  
35 40 45  
Gly Pro Gly Arg Ser Leu Gly Arg Thr Pro Asp Thr Gly Asp Trp Glu  
50 55 60  
Met Asp Ser Val Ser Phe Glu Asp Val Ala Val Ala Phe Thr Gln Glu  
65 70 75 80  
Glu Trp Ala Leu Leu Asp Pro Ser Gln Lys Asn Leu Tyr Arg Asp Val  
85 90 95  
Met Gln Glu Ile Phe Arg Asn Leu Ala Ser Val Gly Asn Lys Ser Glu  
100 105 110  
Asp Gln Asn Ile Gln Asp Asp Phe Lys Asn Pro Gly Arg Asn Leu Ser  
115 120 125  
Ser His Val Val Glu Arg Leu Phe Glu Ile Lys Glu Gly Ser Gln Tyr  
130 135 140  
Gly Glu Thr Phe Ser Gln Asp Ser Asn Leu Asn Leu Asn Lys Ile  
145 150 155 159

<210> 1458  
<211> 154  
<212>Amino acid  
<213> Homo sapiens

<400> 1458  
Ser Leu Ser Leu Ser Val Ser Pro Phe Leu Arg Leu Ser Leu Gly Arg  
1 5 10 15  
Val Gly Gly Met Ala Glu Glu Met Glu Ser Ser Leu Glu Ala Ser Phe  
20 25 30  
Ser Ser Ser Gly Ala Val Ser Gly Ala Ser Gly Phe Leu Pro Pro Ala  
35 40 45  
Arg Ser Arg Ile Phe Lys Ile Ile Val Ile Gly Asp Ser Asn Val Gly  
50 55 60  
Lys Thr Cys Leu Thr Tyr Arg Phe Cys Ala Gly Arg Phe Pro Asp Arg  
65 70 75 80  
Thr Glu Ala Thr Ile Gly Val Asp Phe Arg Glu Arg Ala Val Glu Ile  
85 90 95  
Asp Gly Glu Arg Ile Lys Ile Gln Leu Trp Asp Thr Ala Gly Gln Glu  
100 105 110  
Arg Phe Arg Lys Ser Met Val Gln His Tyr Tyr Arg Asn Val His Ala  
115 120 125  
Val Val Phe Val Tyr Asp Met Thr Asn Met Ala Ser Phe His Ser Leu

130 135 140  
 Pro Ser Trp Ile Glu Glu Cys Lys Gln His  
 145 150 154

<210> 1459  
 <211> 136  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1459  
 Arg Arg Pro Ser Pro Gly Ser Ile Val Ile Met Ala Ala Glu Ser Asp  
 1 5 10 15  
 Val Leu His Phe Gln Phe Glu Gln Gln Gly Asp Val Val Leu Gln Lys  
 20 25 30  
 Met Asn Leu Leu Arg Gln Gln Asn Leu Phe Cys Asp Val Ser Ile Tyr  
 35 40 45  
 Ile Asn Asp Thr Glu Phe Gln Gly His Lys Val Ile Leu Ala Ala Cys  
 50 55 60  
 Ser Thr Phe Met Arg Asp Gln Phe Leu Leu Thr Gln Ser Lys His Val  
 65 70 75 80  
 Arg Ile Thr Ile Leu Gln Ser Ala Glu Val Gly Arg Lys Leu Leu Leu  
 85 90 95  
 Ser Cys Tyr Thr Gly Ala Leu Glu Val Lys Arg Lys Glu Leu Leu Lys  
 100 105 110  
 Tyr Leu Thr Ala Ala Ser Tyr Leu Gln Met Val His Ile Ala Glu Lys  
 115 120 125  
 Arg Thr Glu Ala Phe Val Lys Phe  
 130 135 136

<210> 1460  
 <211> 219  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1460  
 Ala Glu Gly Leu Gln Ser Ala Ala Gly Ile Arg Ile Asp Thr Lys Ala  
 1 5 10 15  
 Gly Pro Pro Glu Met Leu Lys Pro Leu Trp Lys Ala Ala Val Ala Pro  
 20 25 30  
 Thr Trp Pro Cys Ser Met Pro Pro Arg Arg Pro Trp Asp Arg Gln Ala  
 35 40 45  
 Gly Thr Leu Gln Val Leu Gly Ala Leu Ala Val Leu Trp Leu Gly Ser  
 50 55 60  
 Val Ala Leu Ile Cys Leu Leu Trp Gln Val Pro Arg Pro Pro Thr Trp  
 65 70 75 80  
 Gly Gln Val Gln Pro Lys Asp Val Pro Arg Ser Trp Glu His Gly Ser  
 85 90 95  
 Ser Pro Ala Trp Glu Pro Leu Glu Ala Glu Ala Arg Gln Gln Arg Asp  
 100 105 110  
 Ser Cys Gln Leu Val Leu Val Glu Ser Ile Pro Gln Asp Leu Pro Ser  
 115 120 125  
 Ala Ala Gly Ser Pro Ser Ala Gln Pro Leu Gly Gln Ala Trp Leu Gln  
 130 135 140  
 Leu Leu Asp Thr Ala Gln Glu Ser Val His Val Ala Ser Tyr Tyr Trp

```

145          150          155          160
Ser Leu Thr Gly Pro Asp Ile Gly Val Asn Asp Ser Ser Ser Gln Leu
          165          170          175
Gly Glu Ala Leu Leu Gln Lys Leu Gln Gln Leu Leu Gly Arg Asn Ile
          180          185          190
Ser Leu Ala Val Ala Thr Ser Ser Pro Thr Leu Ala Arg Thr Ser Thr
          195          200          205
Asp Leu Gln Val Leu Ala Ala Arg Gly Ala His
210          215          219

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<210> 1461
<211> 80
<212>Amino acid
<213> Homo sapiens

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<400> 1461
Arg Lys Lys Lys Met Pro Leu Pro Phe Gly Leu Lys Leu Lys Arg Thr
 1          5          10          15
Arg Arg Tyr Thr Val Ser Ser Lys Ser Cys Leu Val Ala Arg Ile Gln
          20          25          30
Leu Leu Asn Asn Glu Phe Val Glu Phe Thr Leu Ser Val Glu Ser Thr
          35          40          45
Gly Gln Glu Ser Leu Glu Ala Val Ala Gln Arg Leu Glu Leu Arg Glu
          50          55          60
Val Thr Tyr Phe Ser Leu Trp Tyr Tyr Asn Lys Gln Asn Gln Arg Arg
65          70          75          80

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<210> 1462
<211> 176
<212>Amino acid
<213> Homo sapiens

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<400> 1462
Leu Gln Pro Leu Ser Ser Trp Glu Ser Ala Ser Glu Val Thr Arg Ser
 1          5          10          15
Pro Val Ser Pro Glu Asp Val Lys Gln Ala Thr Ser Asn Phe Glu Asn
          20          25          30
Leu Gln Lys Gln Leu Ala Arg Lys Met Lys Leu Pro Ile Phe Ile Ala
          35          40          45
Asp Ala Phe Thr Ala Arg Ala Phe Arg Gly Asn Pro Ala Ala Val Cys
          50          55          60
Leu Leu Glu Asn Glu Leu Asp Glu Asp Met His Gln Lys Ile Ala Arg
65          70          75          80
Glu Met Asn Leu Ser Glu Thr Ala Phe Ile Arg Lys Leu His Pro Thr
          85          90          95
Asp Asn Phe Ala Gln Ser Ser Cys Phe Gly Leu Arg Trp Phe Thr Pro
          100          105          110
Ala Ser Glu Val Pro Leu Cys Gly His Ala Thr Leu Ala Ser Ala Ala
          115          120          125
Val Leu Phe His Lys Ile Lys Asn Met Asn Ser Thr Leu Thr Phe Val
          130          135          140
Thr Leu Ser Gly Glu Leu Arg Ala Arg Arg Ala Glu Asp Gly Ile Val

```

145		150		155		160									
Leu	Asp	Leu	Pro	Leu	Tyr	Pro	Ala	His	Pro	Gln	Asp	Phe	His	Glu	*
		165				170								175	

<210> 1463  
 <211> 150  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1463

Ala	Ala	Asp	Thr	Met	Gln	Ser	Asp	Asp	Val	Ile	Trp	Asp	Thr	Leu	Gly
1				5					10					15	
Asn	Lys	Gln	Phe	Cys	Ser	Phe	Lys	Ile	Arg	Thr	Lys	Thr	Gln	Ser	Phe
		20					25						30		
Cys	Arg	Asn	Glu	Tyr	Ser	Leu	Thr	Gly	Leu	Cys	Asn	Arg	Ser	Ser	Cys
		35					40					45			
Pro	Leu	Ala	Asn	Ser	Gln	Tyr	Ala	Thr	Ile	Lys	Glu	Glu	Lys	Gly	Gln
	50					55					60				
Cys	Tyr	Leu	Tyr	Met	Lys	Val	Ile	Glu	Arg	Ala	Ala	Phe	Pro	Arg	Arg
	65				70					75				80	
Leu	Trp	Glu	Arg	Val	Arg	Leu	Ser	Lys	Asn	Tyr	Glu	Lys	Ala	Leu	Glu
			85						90					95	
Gln	Ile	Asp	Glu	Asn	Leu	Ile	Tyr	Trp	Pro	Arg	Phe	Ile	Arg	His	Lys
		100						105					110		
Cys	Lys	Gln	Arg	Phe	Thr	Lys	Ile	Thr	Gln	Tyr	Leu	Ile	Arg	Ile	Arg
		115					120					125			
Lys	Leu	Thr	Leu	Lys	Arg	Gln	Arg	Lys	Leu	Val	Pro	Leu	Ser	Lys	Lys
	130					135					140				
Val	Glu	Arg	Arg	Glu	Lys										
145					150										

<210> 1464  
 <211> 86  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1464

Phe	Val	Glu	Arg	Gly	Leu	Gly	Asp	Pro	Ala	Leu	Pro	Thr	Leu	Met	Phe
1				5					10					15	
Glu	Glu	Pro	Glu	Trp	Ala	Glu	Ala	Ala	Pro	Val	Ala	Ala	Gly	Leu	Gly
		20					25						30		
Pro	Val	Ile	Ser	Arg	Pro	Pro	Pro	Ala	Ala	Ser	Ser	Gln	Asn	Lys	Val
		35					40					45			
Ser	Asp	Ser	Arg	Glu	Gln	Trp	Glu	Leu	Phe	Gln	Ala	Ala	Lys	Arg	Thr
	50					55					60				
Leu	Val	Asp	Pro	Ser	Ala	Val	Cys	Ile	Ala	Gly	Arg	Asp	Thr	Cys	Gly
	65				70					75				80	
Thr	Val	Lys	Gly	Glu	Ser										
				85	86										

<210> 1465  
 <211> 286  
 <212>Amino acid

&lt;213&gt; Homo sapiens

<400> 1465

Val	Val	Glu	Phe	Leu	Trp	Ser	Arg	Arg	Pro	Ser	Gly	Ser	Ser	Asp	Pro
1				5					10					15	
Arg	Pro	Arg	Arg	Pro	Ala	Ser	Lys	Cys	Gln	Met	Met	Glu	Glu	Arg	Ala
			20					25						30	
Asn	Leu	Met	His	Met	Met	Lys	Leu	Ser	Ile	Lys	Val	Leu	Leu	Gln	Ser
		35					40					45			
Ala	Leu	Ser	Leu	Gly	Arg	Ser	Leu	Asp	Ala	Asp	His	Ala	Pro	Leu	Gln
	50					55					60				
Gln	Phe	Phe	Val	Val	Met	Glu	His	Cys	Leu	Lys	His	Gly	Leu	Lys	Val
	65				70					75					80
Lys	Lys	Ser	Phe	Ile	Gly	Gln	Asn	Lys	Ser	Phe	Phe	Gly	Pro	Leu	Glu
			85						90					95	
Leu	Val	Glu	Lys	Leu	Cys	Pro	Glu	Ala	Ser	Asp	Ile	Ala	Thr	Ser	Val
			100					105						110	
Arg	Asn	Leu	Pro	Glu	Leu	Lys	Thr	Ala	Val	Gly	Arg	Gly	Arg	Ala	Trp
	115						120					125			
Leu	Tyr	Leu	Ala	Leu	Met	Gln	Lys	Lys	Leu	Ala	Asp	Tyr	Leu	Lys	Val
	130					135					140				
Leu	Ile	Asp	Asn	Lys	His	Leu	Leu	Ser	Glu	Phe	Tyr	Glu	Pro	Glu	Ala
145					150					155					160
Leu	Met	Met	Glu	Glu	Gly	Met	Val	Ile	Val	Gly	Leu	Leu	Val	Gly	
				165				170					175		
Leu	Asn	Val	Leu	Asp	Ala	Asn	Leu	Cys	Leu	Lys	Gly	Glu	Asp	Leu	Asp
			180					185					190		
Ser	Gln	Val	Gly	Val	Ile	Asp	Phe	Ser	Leu	Tyr	Leu	Lys	Asp	Val	Gln
	195						200					205			
Asp	Leu	Asp	Gly	Gly	Lys	Glu	His	Glu	Arg	Ile	Thr	Asp	Val	Leu	Asp
	210					215					220				
Gln	Lys	Asn	Tyr	Val	Glu	Glu	Leu	Asn	Arg	His	Leu	Ser	Cys	Thr	Val
225					230					235					240
Gly	Asp	Leu	Gln	Thr	Lys	Ile	Asp	Gly	Leu	Glu	Lys	Thr	Asn	Ser	Lys
				245					250					255	
Leu	Gln	Glu	Arg	Val	Ser	Ala	Ala	Thr	Asp	Arg	Ile	Cys	Ser	Leu	Gln
			260					265					270		
Glu	Glu	Gln	Gln	Gln	Leu	Arg	Glu	Gln	Asn	Glu	Leu	Ile	Arg		
		275						280					285	286	

&lt;210&gt; 1466

&lt;211&gt; 127

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

<400> 1466

Gly	Cys	Tyr	Ala	Pro	Ser	Pro	His	Leu	Gly	Gly	Ser	Leu	Thr	Pro	Arg
1				5					10					15	
Phe	Phe	Pro	Asn	Gly	Val	Phe	His	Arg	Arg	Leu	Pro	Arg	Pro	Arg	Pro
			20					25						30	
Pro	Gln	Pro	Pro	Ser	Val	Ser	Ser	Ala	Pro	Thr	Leu	Arg	Pro	Leu	Cys
		35					40					45			
Ala	His	Phe	Ser	Leu	Gly	Lys	Leu	Arg	Leu	Arg	Val	Arg	Lys	Ser	Ala
	50					55					60				
Glu	Val	Ala	Pro	Pro	Arg	Thr	Glu	Lys	Gly	Trp	Gly	Ser	Ala	Glu	Pro

65					70					75				80	
Arg	His	Ser	Arg	Ala	Pro	Leu	Gly	Leu	Gln	Gly	Leu	Arg	Met	Ala	Ala
				85					90					95	
Ser	Ala	Gln	Val	Ser	Val	Thr	Phe	Glu	Asp	Val	Ala	Val	Thr	Phe	Thr
			100					105					110		
Gln	Glu	Glu	Trp	Gly	Gln	Leu	Asp	Ala	Ala	Gln	Arg	Thr	Leu	Tyr	
		115					120					125		127	

<210> 1467  
 <211> 146  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1467

Phe	Arg	Gly	Ser	Leu	Ser	Ser	Pro	Ser	Ser	Leu	Arg	Gly	Arg	Arg	Leu
1				5					10					15	
Val	Thr	Gly	Gln	Thr	Ser	Pro	Arg	Gly	Thr	Trp	Cys	Leu	Tyr	Pro	Gly
			20					25					30		
Phe	Cys	Arg	Ser	Val	Ala	Cys	Ala	Met	Pro	Cys	Cys	Ser	His	Arg	Ser
	35						40					45			
Cys	Arg	Glu	Asp	Pro	Gly	Thr	Ser	Glu	Ser	Arg	Glu	Met	Asp	Pro	Val
	50					55					60				
Val	Phe	Glu	Asp	Val	Ala	Val	Asn	Phe	Thr	Gln	Glu	Glu	Trp	Thr	Leu
	65				70					75					80
Leu	Asp	Ile	Ser	Gln	Lys	Asn	Leu	Phe	Arg	Glu	Val	Met	Leu	Glu	Thr
				85					90					95	
Phe	Arg	Asn	Leu	Thr	Ser	Ile	Gly	Lys	Lys	Trp	Ser	Asp	Gln	Asn	Ile
		100						105					110		
Glu	Tyr	Glu	Tyr	Gln	Asn	Pro	Arg	Arg	Ser	Phe	Arg	Ser	Leu	Ile	Glu
		115					120					125			
Glu	Lys	Val	Asn	Glu	Ile	Lys	Glu	Asp	Ser	His	Cys	Gly	Glu	Thr	Phe
	130					135					140				
Thr	Gln														
145	146														

<210> 1468  
 <211> 44  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1468

Leu	Asn	Phe	Ala	Asn	Ser	Ala	Ala	Phe	Ala	Val	Thr	Met	Pro	Gln	Asn
1				5					10					15	
Glu	Tyr	Ile	Glu	Leu	His	Arg	Lys	Arg	Tyr	Gly	Phe	Arg	Leu	Asp	Tyr
			20					25					30		
His	Glu	Lys	Lys	Arg	Lys	Lys	Gln	Ser	Arg	Glu	Ala				
	35						40				44				

<210> 1469  
 <211> 198  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1469  
 Ser Gly Asp Leu Ser Pro Ala Glu Leu Met Met Leu Thr Ile Gly Asp  
 1 5 10 15  
 Val Ile Lys Gln Leu Ile Glu Ala His Glu Gln Gly Lys Asp Ile Asp  
 20 25 30  
 Leu Asn Lys Val Lys Thr Lys Thr Ala Ala Lys Tyr Gly Leu Ser Ala  
 35 40 45  
 Gln Pro Arg Leu Val Asp Ile Ile Ala Ala Val Pro Pro Gln Tyr Arg  
 50 55 60  
 Lys Val Leu Met Pro Lys Leu Lys Ala Lys Pro Ile Arg Thr Ala Ser  
 65 70 75 80  
 Gly Ile Ala Val Val Ala Val Met Cys Lys Pro His Arg Cys Pro His  
 85 90 95  
 Ile Ser Phe Thr Gly Asn Ile Cys Val Tyr Cys Pro Gly Gly Pro Asp  
 100 105 110  
 Ser Asp Phe Glu Tyr Ser Thr Gln Ser Tyr Thr Gly Tyr Glu Pro Thr  
 115 120 125  
 Ser Met Arg Ala Ile Arg Ala Arg Tyr Asp Pro Phe Leu Gln Thr Arg  
 130 135 140  
 His Arg Ile Glu Gln Leu Lys Gln Leu Gly His Ser Val Asp Lys Val  
 145 150 155 160  
 Glu Phe Ile Glu Met Gly Gly Thr Phe Met Ala Leu Pro Glu Glu Tyr  
 165 170 175  
 Arg Asp Tyr Phe Ile Arg Asn Leu His Asp Ala Leu Ser Gly His Thr  
 180 185 190  
 Ser Asn Asn Ile Tyr Glu  
 195 198

<210> 1470  
 <211> 178  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1470  
 Trp Glu Ser Asp Val Gly Glu Gly Leu Arg Pro Pro Pro Pro Pro Pro  
 1 5 10 15  
 Pro Pro Gly Arg Arg Arg Thr Gln Glu Pro Arg Ala Arg Asp Ala Ala  
 20 25 30  
 Thr Val Ile Phe Ala Cys Pro Ala Ala Leu Leu Glu Thr Leu Ile Ala  
 35 40 45  
 Tyr Gly Ser Ser Ser Pro Ser Phe Cys Lys His Arg Ala Ala Arg Pro  
 50 55 60  
 Leu Ile Phe Leu Leu His Arg Leu Thr Ala Glu Ala Thr Ala Arg Cys  
 65 70 75 80  
 Pro Ile Cys Ala Leu Glu Ala Arg Asn Pro Gly Arg Trp Gly Ile Cys  
 85 90 95  
 Ala Ser Trp Pro Gly Met Lys Thr Pro Phe Gly Lys Ala Ala Ala Gly  
 100 105 110  
 Gln Arg Ser Arg Thr Gly Ala Gly His Gly Ser Val Ser Val Thr Met  
 115 120 125  
 Ile Lys Arg Lys Ala Ala His Lys Lys His Arg Ser Arg Pro Thr Ser  
 130 135 140  
 Gln Pro Arg Gly Asn Ile Val Gly Cys Ile Ile Gln His Gly Trp Lys  
 145 150 155 160  
 Asp Gly Asp Glu Pro Leu Thr Gln Trp Lys Gly Thr Val Leu Asp Gln



Leu Leu 165 170 175  
178

<210> 1471  
<211> 253  
<212>Amino acid  
<213> Homo sapiens

<400> 1471  
Arg Asp Leu Gly Val Ala Leu Glu Ala Phe Gln Trp Ala Arg Ala Gly  
1 5 10 15  
Asp Cys Gly Ser Gly Ala Gly Arg Ala Gly Gly Glu Gly Val Asp Ala  
20 25 30  
Gly Arg Arg Val Pro Glu Arg Gln His Arg Gly Arg Gly Gly Gly Gly  
35 40 45  
Glu Pro Gly Arg Arg Gln Arg Gly Gly Arg Arg Gln Arg Ser Ser Ser  
50 55 60  
Arg Arg Ser Gly Gly Asp Gly Gly Asp Glu Val Glu Gly Ser Gly Val  
65 70 75 80  
Gly Ala Gly Glu Gly Glu Thr Val Gln His Phe Pro Leu Ala Arg Pro  
85 90 95  
Lys Ser Leu Met Gln Lys Leu Gln Cys Ser Phe Gln Thr Ser Trp Leu  
100 105 110  
Lys Asp Phe Pro Trp Leu Arg Tyr Ser Lys Asp Thr Gly Leu Met Ser  
115 120 125  
Cys Gly Trp Cys Gln Lys Thr Pro Ala Asp Gly Gly Ser Val Asp Leu  
130 135 140  
Pro Pro Val Gly His Asp Glu Leu Ser Arg Gly Thr Arg Asn Tyr Lys  
145 150 155 160  
Lys Thr Leu Leu Leu Arg His His Val Ser Thr Glu His Lys Leu His  
165 170 175  
Glu Ala Asn Ala Gln Glu Ser Glu Ile Pro Ser Glu Glu Gly Tyr Cys  
180 185 190  
Asp Phe Asn Ser Arg Pro Asn Glu Asn Ser Tyr Cys Tyr Gln Leu Leu  
195 200 205  
Arg Gln Leu Asn Glu Gln Arg Lys Lys Gly Ile Leu Cys Asp Val Ser  
210 215 220  
Ile Val Val Ser Gly Lys Ile Phe Lys Ala His Lys Asn Ile Leu Val  
225 230 235 240  
Ala Gly Ser Arg Phe Phe Lys Thr Leu Tyr Cys Phe Ser  
245 250 253

<210> 1472  
<211> 147  
<212>Amino acid  
<213> Homo sapiens

<400> 1472  
Ser Leu Arg Ala Ala Ala Met Ala Asp Val Thr Ala Arg Ser Leu  
1 5 10 15  
Gln Tyr Glu Tyr Lys Ala Asn Ser Asn Leu Val Leu Gln Ala Asp Arg  
20 25 30  
Ser Leu Ile Asp Arg Thr Arg Arg Asp Glu Pro Thr Gly Glu Val Leu

```

      35              40              45
Ser Leu Val Gly Lys Leu Glu Gly Thr Arg Met Gly Asp Lys Ala Gln
  50              55              60
Arg Thr Lys Pro Gln Met Gln Glu Glu Arg Arg Ala Lys Arg Arg Lys
  65              70              75              80
Arg Asp Glu Asp Arg His Asp Ile Asn Lys Met Lys Gly Tyr Thr Leu
      85              90              95
Leu Ser Glu Gly Ile Asp Glu Met Val Gly Ile Ile Tyr Lys Pro Lys
      100              105              110
Thr Lys Glu Thr Arg Glu Thr Tyr Glu Val Leu Leu Ser Phe Ile Gln
      115              120              125
Ala Ala Leu Gly Asp Gln Pro Arg Asp Ile Leu Cys Gly Ala Ala Asp
      130              135              140
Glu Val Leu
145      147

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<210> 1473
<211> 139
<212>Amino acid
<213> Homo sapiens

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      <400> 1473
Cys Asn Ser Ala Glu Ser Arg Met Asp Val Leu Phe Val Ala Ile Phe
  1              5              10              15
Ala Val Pro Leu Ile Leu Gly Gln Glu Tyr Glu Asp Glu Glu Arg Leu
      20              25              30
Gly Glu Asp Glu Tyr Tyr Gln Val Val Tyr Tyr Tyr Thr Val Thr Pro
      35              40              45
Ser Tyr Asp Asp Phe Ser Ala Asp Phe Thr Ile Asp Tyr Ser Ile Phe
      50              55              60
Glu Ser Glu Asp Arg Leu Asn Arg Leu Asp Lys Asp Ile Thr Glu Ala
      65              70              75              80
Ile Glu Thr Thr Ile Ser Leu Glu Thr Ala Arg Ala Asp His Pro Lys
      85              90              95
Pro Val Thr Val Lys Pro Val Thr Thr Glu Pro Gln Ser Pro Asp Leu
      100              105              110
Asn Asp Ala Val Ser Ser Leu Arg Ser Pro Ile Pro Leu Leu Leu Ser
      115              120              125
Cys Ala Phe Val Gln Val Gly Met Tyr Phe Met
      130              135              139

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<210> 1474
<211> 185
<212>Amino acid
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(185)
<223> X = any amino acid or stop code

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      <400> 1474
Phe Val Arg Gly Pro Gly Glu Glu Gln Ala Pro Ala Phe Arg Lys Pro
  1              5              10              15

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Ala Pro Gly Ala Met Gly Ala Gln Val Arg Leu Pro Pro Gly Glu Pro  
                   20                  25                  30  
 Cys Arg Glu Gly Tyr Val Leu Ser Leu Val Cys Pro Asn Ser Ser Gln  
                   35                  40                  45  
 Ala Trp Cys Glu Ile Thr Asn Val Ser Gln Leu Leu Ala Ser Pro Val  
                   50                  55                  60  
 Leu Tyr Thr Asp Leu Asn Tyr Ser Ile Asn Asn Leu Ser Ile Ser Ala  
                   65                  70                  75                  80  
 Asn Val Glu Asn Lys Tyr Ser Leu Tyr Val Gly Leu Val Leu Ala Val  
                   85                  90                  95  
 Ser Ser Ser Ile Phe Ile Gly Ser Ser Phe Ile Leu Lys Lys Lys Gly  
                   100                  105                  110  
 Leu Leu Gln Leu Ala Ser Lys Gly Phe Thr Arg Ala Gly Gln Gly Gly  
                   115                  120                  125  
 His Ser Tyr Leu Lys Glu Trp Leu Trp Trp Val Gly Leu Leu Ser Ile  
                   130                  135                  140  
 Leu Ser Trp Asn Ala Arg Glu Lys Val Asp Leu Xaa Asn Ile Thr Phe  
                   145                  150                  155                  160  
 Xaa Pro Gln Thr Ser Cys Ile Phe Phe Thr Ile Thr Ile Glu Lys Ser  
                   165                  170                  175  
 Thr Phe Leu Ser Tyr Phe Pro Thr Ser  
                   180                  185

<210> 1475  
 <211> 91  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1475  
 Ala Arg Gly Ser Cys Pro Thr Arg Pro Arg Pro Ala Asn Gly Arg Met  
   1                  5                  10                  15  
 Ala Glu Thr Lys Asp Ala Ala Gln Met Leu Val Thr Phe Lys Asp Val  
                   20                  25                  30  
 Ala Val Thr Phe Thr Arg Glu Glu Trp Arg Gln Leu Asp Leu Ala Gln  
                   35                  40                  45  
 Arg Thr Leu Tyr Arg Glu Val Met Leu Glu Thr Cys Gly Leu Leu Val  
                   50                  55                  60  
 Ser Leu Gly His Arg Val Pro Lys Pro Glu Leu Val His Leu Leu Lys  
                   65                  70                  75                  80  
 His Gly Gln Glu Leu Trp Ile Val Lys Arg Gly  
                   85                  90  91

<210> 1476  
 <211> 159  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1476  
 Tyr Thr Met Leu Arg Gly Thr Met Thr Ala Trp Arg Gly Met Arg Pro  
   1                  5                  10                  15  
 Glu Val Thr Leu Ala Cys Leu Leu Leu Ala Thr Ala Gly Cys Phe Ala  
                   20                  25                  30  
 Asp Leu Asn Glu Val Pro Gln Val Thr Val Gln Pro Ala Ser Thr Val  
                   35                  40                  45

Gln Lys Pro Gly Gly Thr Val Ile Leu Gly Cys Val Val Glu Pro Pro  
 50 55 60  
 Arg Met Asn Val Thr Trp Arg Leu Asn Gly Lys Glu Leu Asn Gly Ser  
 65 70 75 80  
 Asp Asp Ala Leu Gly Val Leu Ile Thr His Gly Thr Leu Val Ile Thr  
 85 90 95  
 Ala Leu Asn Asn His Thr Val Gly Arg Tyr Gln Cys Val Ala Arg Met  
 100 105 110  
 Pro Ala Gly Ala Val Ala Ser Val Pro Ala Thr Val Thr Leu Ala Ser  
 115 120 125  
 Glu Ser Ala Pro Leu Pro Pro Cys His Gly Ala Val Pro Pro His Leu  
 130 135 140  
 Ser His Pro Glu Ala Pro Thr Ile His Ala Ala Ser Cys Tyr Ser  
 145 150 155 159

<210> 1477  
 <211> 139  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1477  
 Trp Gly Arg Arg Arg Gln Leu Val Ser Glu Ala Ala Arg Ala Gln Gly  
 1 5 10 15  
 Asp Pro Val Cys Ser Thr Met Ser Glu Glu Glu Ala Ala Gln Ile Pro  
 20 25 30  
 Arg Ser Ser Val Trp Glu Gln Asp Gln Gln Asn Val Val Gln Arg Val  
 35 40 45  
 Val Ala Leu Pro Leu Val Arg Ala Thr Cys Thr Ala Val Cys Asp Val  
 50 55 60  
 Tyr Ser Ala Ala Lys Asp Arg His Pro Leu Leu Gly Ser Ala Cys Arg  
 65 70 75 80  
 Leu Ala Glu Asn Cys Val Cys Gly Leu Thr Thr Arg Ala Leu Asp His  
 85 90 95  
 Ala Gln Pro Leu Leu Glu His Leu Gln Pro Gln Leu Ala Thr Met Asn  
 100 105 110  
 Ser Leu Ala Cys Arg Gly Leu Asp Lys Leu Glu Glu Lys Leu Pro Phe  
 115 120 125  
 Leu Gln Gln Pro Ser Glu Thr Val Val Thr Ser  
 130 135 139

<210> 1478  
 <211> 331  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(331)  
 <223> X = any amino acid or stop code

<400> 1478  
 Ala Lys Ala Phe Thr Met Ala Glu Ser Pro Gly Cys Cys Ser Val Trp  
 1 5 10 15  
 Ala Arg Cys Leu His Cys Leu Tyr Ser Cys His Trp Arg Lys Cys Pro

917